1070

XO-700W

SERVICE MANUAL

US Model
AEP Model
UK Model
E Model

COMPONENT MODEL NAME FOR XO-700W STEREO SYSTEM

Stereo deck receiver : HST-700W 1297

Turntable system : PS-LX700P 2815 2132/14/5
(except for E3 model,

Speaker system : SS-V700 1071
Note: for AEP,UK model, certain
XO-700W have no speaker system.

- See the respective SERVICE MANUALS issued separately for detailed informations of each component.

SPECIFICATIONS

Power requirements
US model: 120 V ac, 60 Hz
AEP model: 220 V ac, 50/60 Hz
UK model: 240 V ac, 50 Hz
E2, E3 model: 120, 220 or 240 V ac adjustable, 50/60 Hz

Power consumption
US model: 65 watts
AEP, UK model: 70 watts
E2, E3 model: 110 watts

AC outlet 1 unswitched, 100 watts max. (for E3 model)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

PARTS LIST

ACCESSORY & PACKING MATERIAL

Part No.	Description
⚠ 1-526-565-12	(E3)...AC PLUG ADAPTOR
1-557-841-11	(US,AEP,G-AEP,UK,E2)...CORD (WITH CONNECTOR)
3-701-630-00	BAG, POLYETHYLENE
3-701-806-00	(US,AEP,G-AEP,UK,E2)...ADAPTOR, 45, (E)
3-703-390-01	(US).....INSTRUCTION
3-760-328-11	(US,AEP,UK,E2,E3)...MANUAL, INSTRUCTION
3-760-328-41	(AEP,G-AEP)......MANUAL, INSTRUCTION
4-909-939-01	(AEP,G-AEP,UK)...INDIVIDUAL CARTON
4-909-941-01	(E2).............INDIVIDUAL CARTON
4-909-942-01	(E3).............INDIVIDUAL CARTON
4-910-521-01	(US).............INDIVIDUAL CARTON
4-909-944-01	(E3).....CUSHION, UPPER
4-909-945-01	(E3).....CUSHION, LOWER
4-909-947-01	(US,AEP,G-AEP,UK,E2)...CUSHION (RIGHT), UPPER
4-909-948-01	(US,AEP,G-AEP,UK,E2)...CUSHION (LEFT), UPPER
4-909-949-01	(US,AEP,G-AEP,UK,E2)...CUSHION (RIGHT), LOWER
4-909-950-01	(US,AEP,G-AEP,UK,E2)...CUSHION (LEFT), LOWER
4-909-951-01	(US,E2,E3)...CUSHION, SS
4-909-943-01	(HST-700W)...SHEET, PROTECTION
4-903-129-01	(SS-V700)...BAG, PROTECTION
4-903-130-01	(SS-V700)...SHEET, PROTECTION
4-910-121-01	(SS-V700)...PARTITION
3-701-634-00	(PS-LX700P)...BAG, POLYETHYLENE
3-794-123-01	(PS-LX700P)...LABEL, CAUTION
4-879-798-00	(PS-LX700P)...SHEET, PROTECTION
4-880-334-00	(PS-LX700P)...CUSHION, ARM
4-887-948-00	(PS-LX700P)...HOLDER, TURNTABLE
4-909-068-01	(PS-LX700P)...CUSHION (LEFT)
4-909-069-01	(PS-LX700P)...CUSHION (RIGHT)
4-909-071-01	(PS-LX700P)...SPACER, CLUTCH
4-909-072-01	(PS-LX700P)...PROTECTION

COMPACT STEREO SYSTEM

SONY®

English
85C04116-1
Printed in Japan

© 1985

Sony Corporation

AUD

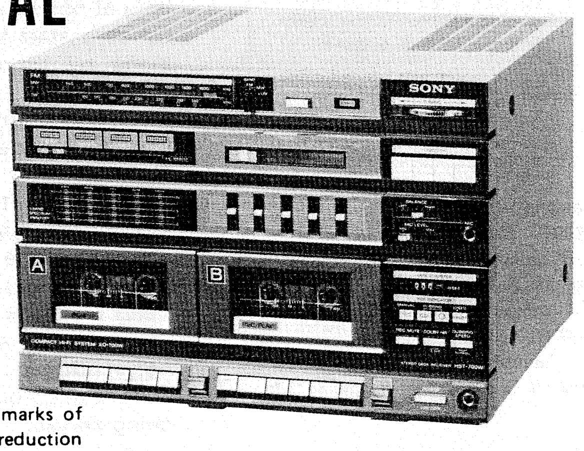
1070

1297

HST-700W

SERVICE MANUAL

AEP Model
UK Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

This set is the deck-receiver section in XO-700W.

SPECIFICATIONS

Tape Transport Mechanism Type	DECK A: TCM-50FMSB
	DECK B: TCM-50FMB

0 dB = 0.775V (AF)
0 dB = 1μV (RF)

Amplifier section

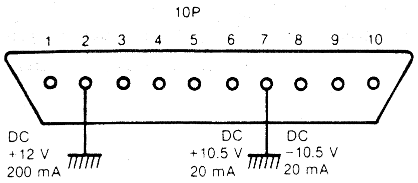
Continuous RMS power output
25 + 25 watts
(6 ohms, at 1 kHz, 5% THD)

Inputs	Sensitivity	Impedance
CD/AUX (phono jacks)	250 mV	50 kilohms
MIC (phone jack)	1 mV	low impedance

Outputs

HEADPHONES (stereo phone jack)	Accepts low impedance headphones
SPEAKER	Accepts speakers of 6 to 16 ohms

10-pin connector of the HST-700W (rear panel)



Tuner section

System FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108 MHz (AEP, UK model)
87.6 – 108 MHz (G-AEP model)

Antenna terminals
75 ohms unbalanced

Intermediate frequency
10.7 MHz

Signal-to-noise ratio
70 dB (mono)
65 dB (stereo)

– Continued on page 2 –

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MICROFILM

STEREO DECK RECEIVER

SONY®

AUD

1297

HST-700W

MW/LW tuner section

	MW	LW
Tuning range	531-1,602 kHz	153-344 kHz
Antenna	Ferrite-bar antenna incorporated External antenna terminal	
Intermediate frequency	450 kHz	

Deck section

Recording system	4-track 2-channel stereo
Frequency response	DOLBY NR OFF (DIN) With TYPE IV cassette (Sony METAL-ES) 60 - 15,000 Hz (±3 dB) With TYPE II cassette (Sony UCX) 60 - 14,000 Hz (±3 dB) With TYPE I cassette (Sony HF-S) 60 - 13,000 Hz (±3 dB)

General

Dimensions	Approx. 355 x 256 x 341 mm (w/h/d) (14 x $10^1/_8$ x $13^1/_2$ inches) incl. projecting parts and controls
Weight	Approx. 7.2 kg (15 lb 14 oz) net
Power requirements	AEP,G-AEP model : 220 V ac, 50/60 Hz UK model : 240 V ac, 50 Hz

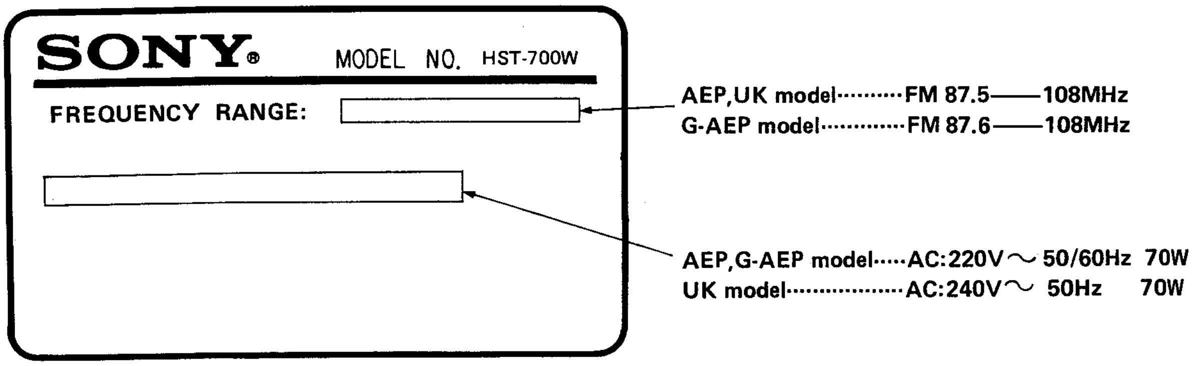
Note
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

FEATURES

- Synchro dubbing function allows tape-to-tape dubbing at normal or high speed.
- Synchro start function allows record dubbing to be made by simply pressing the PHONO DUBBING button.
- Five-band graphic-equalizer to adjust the sound to your preference.
- MIC jack for mixing sound from an external microphone with other sound sources.
- Automatic music sensor (AMS) allows easy repeat playback of the selection being played and easy skipping to the next selection.
- Relay playback from deck A to deck B is possible.
- Single button recording.
- Automatic tape select system sets the optimum bias current and equalization characteristics for the tape being played.
- Dolby NR (noise reduction system) reduces tape hiss and assures high quality recording and playback.
- Record muting function for creating blank intervals on the tape during recording, eliminating unwanted program material.
- When the ▶ button of the tape deck or START/STOP button of the turntable system is pressed, the function is automatically changed.

MODEL IDENTIFICATION

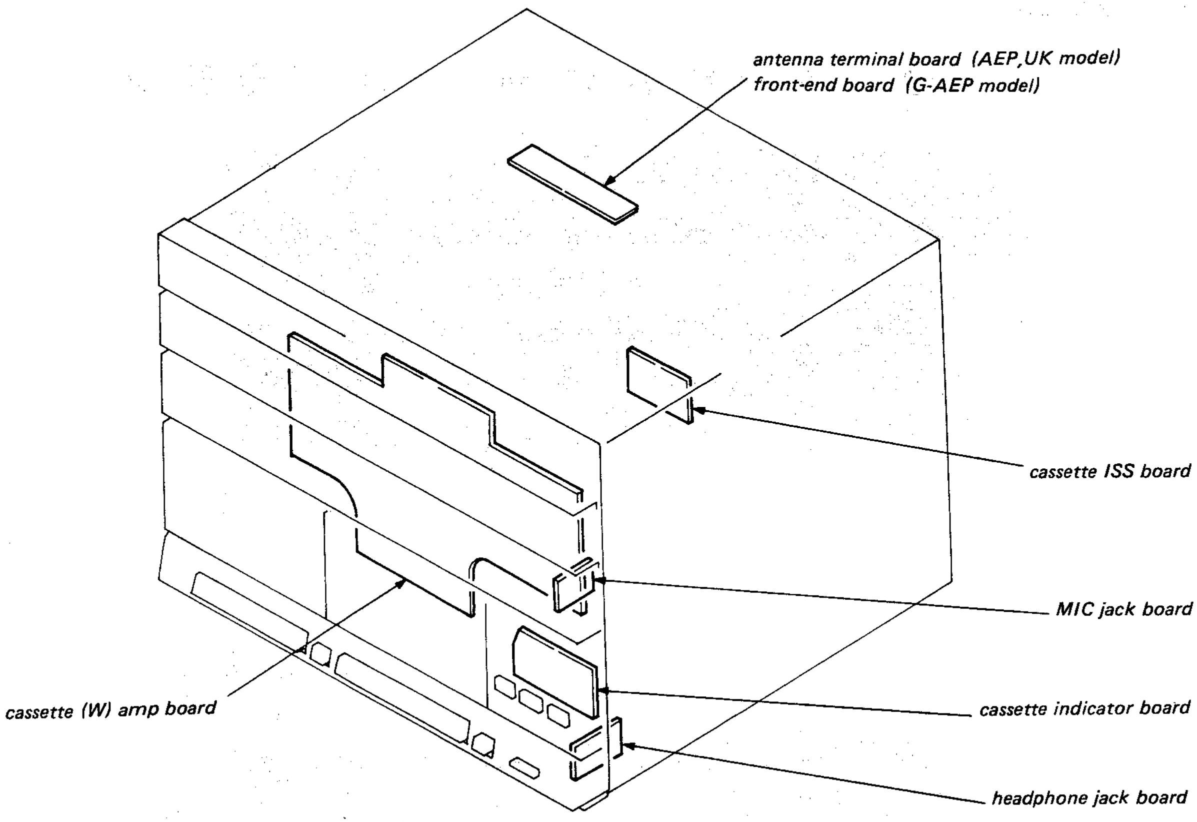
—Specification Label—

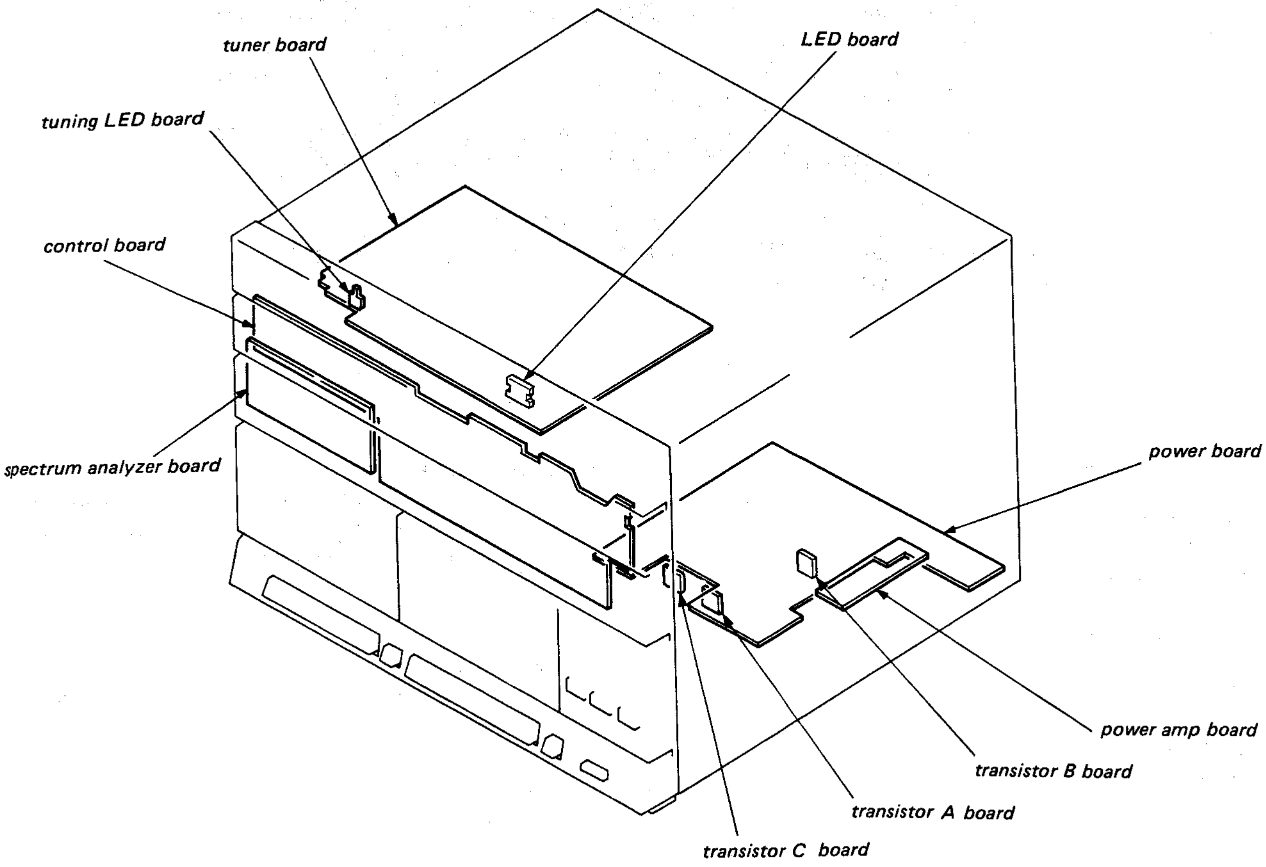


AEP,UK model··········FM 87.5——108MHz
G-AEP model·············FM 87.6——108MHz

AEP,G-AEP model·····AC:220V∿ 50/60Hz 70W
UK model··················AC:240V∿ 50Hz 70W

PC BOARD LAYOUT


antenna terminal board (AEP,UK model)
front-end board (G-AEP model)
cassette ISS board
MIC jack board
cassette (W) amp board
cassette indicator board
headphone jack board


tuner board
LED board
tuning LED board
control board
spectrum analyzer board
power board
power amp board
transistor B board
transistor A board
transistor C board

HST-700W

LOCATION AND FUNCTION OF CONTROLS

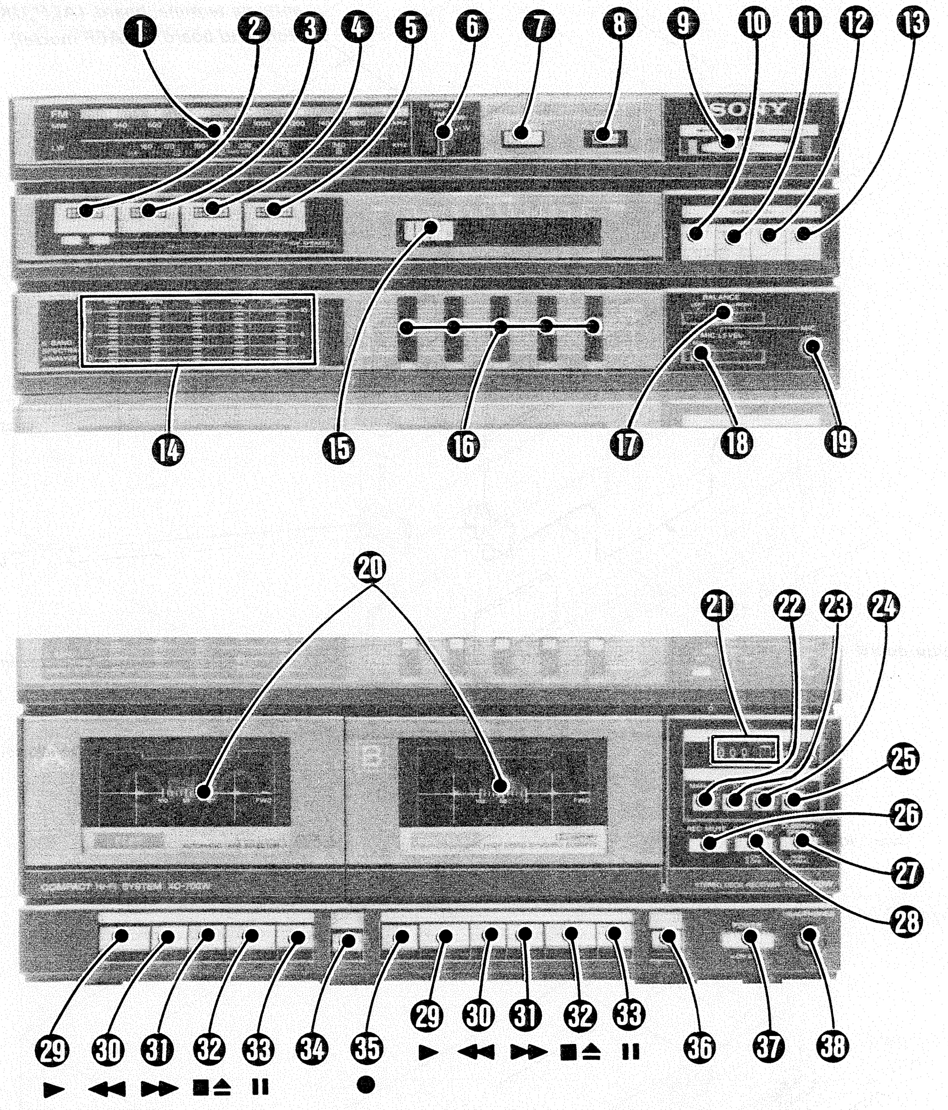


PHOTO: AEP model

① **Frequency scale**

② **TAPE indicator**

③ **CD/AUX indicator**

④ **TUNER indicator**

⑤ **PHONO indicator**

⑥ **BAND selector**
Selects the desired band.

⑦ **STEREO/MUTING button**
Normally keep this button depressed to eliminate FM interstation noise while tuning from station to station. The tuner operates in stereo mode for stereo sound sources and will be automatically switched to mono mode for monaural sound sources.

⑧ **STEREO indicator**
This indicator will light when an FM stereo program of sufficient strength is tuned in with the STEREO/-MUTING button depressed.

⑨ **TUNING knob**

⑩ **TAPE key**
Press this key to change the function to TAPE when you want to listen to a taped program during tape dubbing, after listening to another program source. When the ▶ button or TAPE DUBBING button is depressed, there is no need to press the TAPE key.

⑪ **CD/AUX key**
Press this key to listen to or record an auxiliary program (connected to the CD/AUX inputs on the rear panel).

⑫ **TUNER key**
Press this key to listen to a radio program after listening to another program source. Normally, when the power is turned on, TUNER is automatically selected.

⑬ **PHONO key**
Press this key when you want to listen to a record during record dubbing, after listening to another program source.
Normally, when the START/STOP button of the turntable system or the PHONO DUBBING button of the tape deck is pressed, PHONO is automatically selected.

⑭ **Spectrum analyzer**

⑮ **VOLUME control**

⑯ **Graphic equalizer controls**
63 Hz: Use this control to boost or cut the bass.
250 Hz: Use this control to adjust the middle frequency range.
1 kHz: Use this control to provide more presence of vocals.
4 kHz: Use this control to adjust the brightness of sound.
12 kHz: This control effects general treble. Slide downwards to reduce high frequency noise, such as tape hiss.

⑰ **BALANCE control**

⑱ **MIC LEVEL control**
Slide the control towards MAX for more microphone volume.
When a microphone is not used, slide this control completely to MIN.

⑲ **MIC (microphone) jack** (phone jack)

⑳ **Cassette holder**

㉑ **TAPE COUNTER and RESET button**

㉒ **MANUAL REC indicator**
Lights up when the REC ● button is depressed.

㉓ **DUBBING ꝏ indicator**
Lights up when the TAPE DUBBING button is depressed.

㉔ **DUBBING ⊘ indicator**
Lights up when the PHONO DUBBING button is depressed.

㉕ **HIGH SPEED indicator**
Lights up during high speed tape-to-tape dubbing.

㉖ **REC MUTE button**
Press this button to eliminate unwanted material and to insert a blank space during recording.

㉗ **DUBBING SPEED button**
Press this button to select the dubbing speed for tape-to-tape dubbing.
For high speed dubbing, depress this button (HIGH ▬).
For normal speed dubbing, keep this button released (NORMAL ⊓).

㉘ **DOLBY NR button**
Depress this button (ON) for recording or playback with the Dolby NR process. Press again to disengage (OFF).
The Dolby NR system built in this deck is commonly used for deck A and deck B.
When both decks A and B are activated, only the sound from deck B passes through the Dolby NR system.

㉙ **▶ (playback) button**

㉚ **◀◀ (rewind) button**

㉛ **▶▶ (fast-forward) button**

㉜ **■⏏ (stop/eject) button**

㉝ **❚❚ (pause) button**

㉞ **TAPE DUBBING button**
Depress this button for tape-to-tape dubbing.

㉟ **● (recording) button**

㊱ **PHONO DUBBING button**
Depress this button for record dubbing.

㊲ **POWER switch**

㊳ **HEADPHONES jack** (stereo phone jack)

Rear panel

ISS (Interference suppress switch)
If interference is encountered while recording MW or LW program, slide the switch to 2 or 3 position depending on which best reduces the noise. Normally set the switch to 1 position.

RELAY PLAYBACK

When the ▶ button of deck B is depressed during playback of deck A, relay play from deck A to deck B is possible. Relay play from deck B to deck A cannot be made.

Note
For relay playback, be sure to press the button of deck B only when deck B is in the stop mode.
Playback of deck B will not wait for deck A playback to end if the ◀◀ or ▶▶ button of deck B is depressed and then the ▶ button, during playback of deck A.

TAPE DUBBING (from deck A to deck B)

AUTO DUBBING

The sound played back on deck A can be recorded on deck B. During dubbing, it is not necessary to set the DOLBY NR button.
To monitor the tape sound recorded using the Dolby NR system, depress the DOLBY NR button.

Note
During dubbing, avoid changing the setting of the DUBBING SPEED button.
This causes excessive wow and flutter.

MANUAL DUBBING

The sound played back on deck A can be recorded on deck B using the graphic equalizer.

RECORD DUBBING

Before operation, be sure that the flat cable connection is made securely.

AUTO DUBBING

- Use deck B.
- The Dolby NR system does not activate.

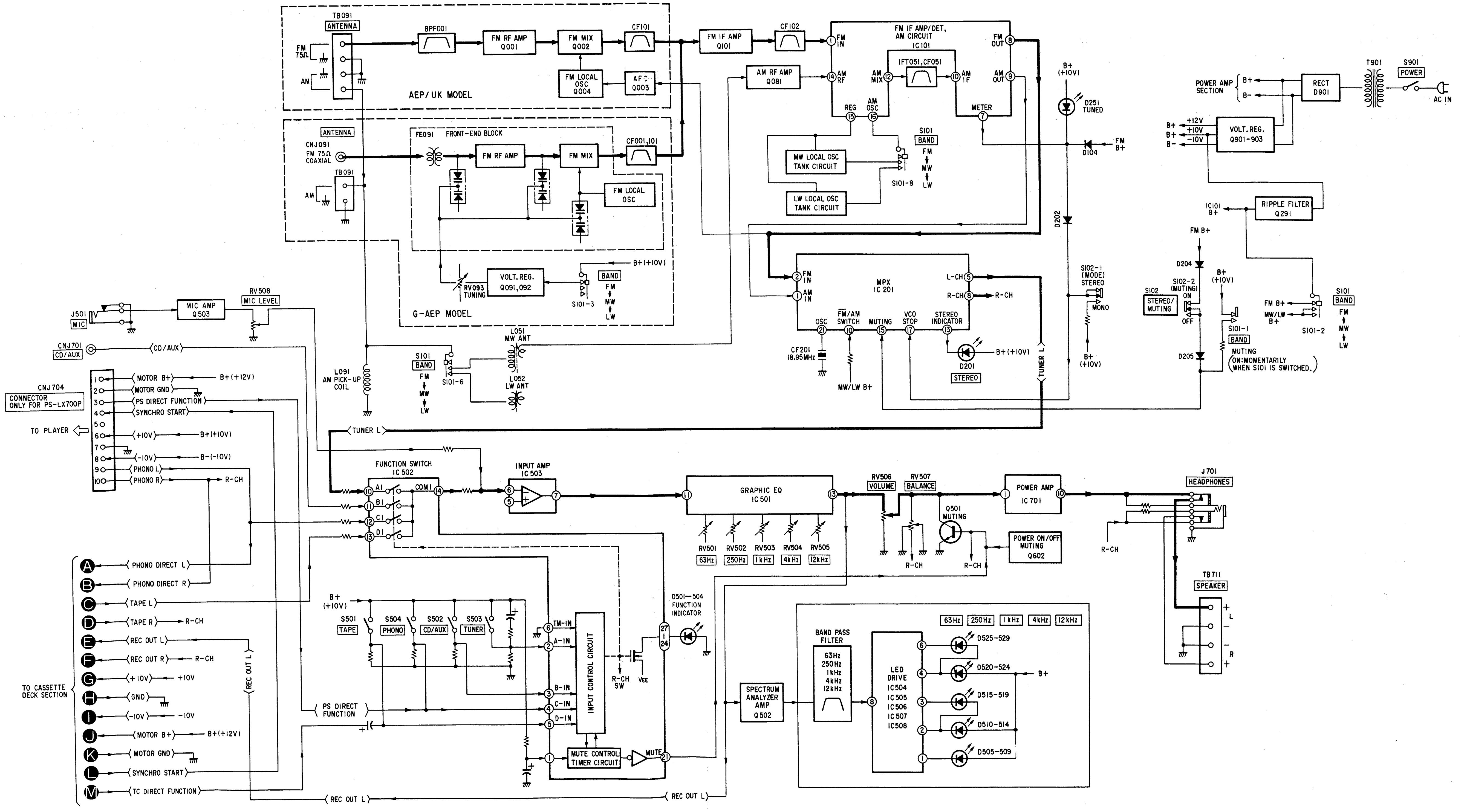
Note
High speed dubbing of a record cannot be made. If you accidentally depress the DUBBING SPEED button, the recording will contain wow and flutter.

MANUAL DUBBING

- Use deck B.
- The sound to be recorded can be processed with the Dolby NR system and graphic equalizer.
- Before dubbing, adjust the tone quality using the graphic equalizer controls.

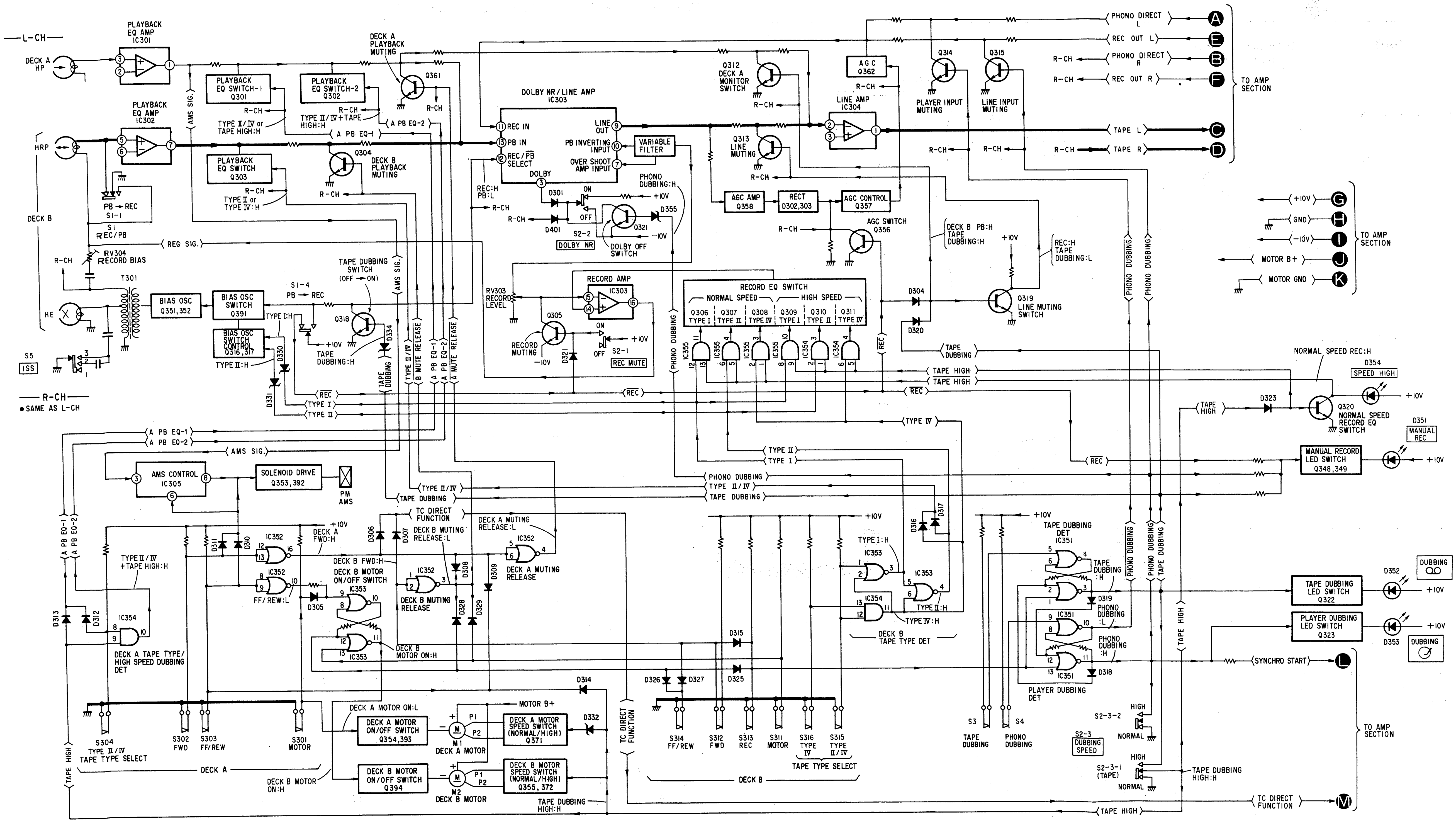
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM
– Tuner/Amplifier Section –


TB091
ANTENNA
FM 75Ω
AM
BPF001
FM RF AMP Q001
FM MIX Q002
CF101
FM LOCAL OSC Q004
AFC Q003
AEP/UK MODEL
ANTENNA
CNJ091
FM 75Ω COAXIAL
TB091
AM
FE091 FRONT-END BLOCK
FM RF AMP
FM MIX
CF001,101
FM LOCAL OSC
VOLT. REG. Q091,092
RV093 TUNING
B+(+10V)
BAND
FM
MW
LW
S101-3
G-AEP MODEL
FM IF AMP Q101
CF102
FM IF AMP/DET, AM CIRCUIT IC101
FM IN
AM RF
AM MIX
IFT051,CF051
AM IF
FM OUT
AM OUT
REG
AM OSC
METER
AM RF AMP Q081
S101 BAND
FM
MW
LW
S101-8
MW LOCAL OSC TANK CIRCUIT
LW LOCAL OSC TANK CIRCUIT
B+ (+10V)
D251 TUNED
D104
FM B+
D202
MPX IC201
FM IN
AM IN
L-CH
R-CH
FM/AM SWITCH
MUTING
VCO STOP
STEREO INDICATOR
OSC
CF201 18.95MHz
MW/LW B+
D201
STEREO
B+(+10V)
TUNER L
S102-1 (MODE) STEREO
MONO
B+ (+10V)
T901
S901 POWER
AC IN
RECT D901
POWER AMP SECTION
B+
B-
+12V
+10V
-10V
VOLT. REG. Q901-903
RIPPLE FILTER Q291
IC101 B+
FM B+
D204
S102 STEREO/MUTING
S102-2 (MUTING) ON OFF
B+ (+10V)
S101-1
BAND
MUTING (ON: MOMENTARILY WHEN S101 IS SWITCHED.)
D205
S101 BAND
FM B+
MW/LW B+
S101-2
FM
MW
LW
J501 MIC
MIC AMP Q503
RV508 MIC LEVEL
CNJ701 CD/AUX
CD/AUX
CNJ704 CONNECTOR ONLY FOR PS-LX700P
TO PLAYER
MOTOR B+ — B+(+12V)
MOTOR GND
PS DIRECT FUNCTION
SYNCHRO START
+10V — B+(+10V)
-10V — B-(-10V)
PHONO L
PHONO R — R-CH
L091 AM PICK-UP COIL
S101 BAND FM MW LW
S101-6
L051 MW ANT
L052 LW ANT
TUNER L
FUNCTION SWITCH IC502
A1 B1 C1 D1 COM1
INPUT AMP IC503
GRAPHIC EQ IC501
RV501 63Hz
RV502 250Hz
RV503 1kHz
RV504 4kHz
RV505 12kHz
RV506 VOLUME
RV507 BALANCE
Q501 MUTING
R-CH
POWER AMP IC701
POWER ON/OFF MUTING Q602
J701 HEADPHONES
R-CH
TB711 SPEAKER
+ L –
– R +
A PHONO DIRECT L
B PHONO DIRECT R
C TAPE L
D TAPE R — R-CH
E REC OUT L
F REC OUT R — R-CH
G +10V — +10V
H GND
I -10V — -10V
J MOTOR B+ — B+(+12V)
K MOTOR GND
L SYNCHRO START
M TC DIRECT FUNCTION
TO CASSETTE DECK SECTION
REC OUT L
B+ (+10V)
S501 TAPE
S504 PHONO
S502 CD/AUX
S503 TUNER
PS DIRECT FUNCTION
TM-IN
A-IN
B-IN
C-IN
D-IN
INPUT CONTROL CIRCUIT
MUTE CONTROL TIMER CIRCUIT
MUTE
R-CH SW
VEE
D501-504 FUNCTION INDICATOR
REC OUT L
SPECTRUM ANALYZER AMP Q502
BAND PASS FILTER 63Hz 250Hz 1kHz 4kHz 12kHz
LED DRIVE IC504 IC505 IC506 IC507 IC508
63Hz 250Hz 1kHz 4kHz 12kHz
D525-529
D520-524
D515-519
D510-514
D505-509
B+
REC OUT L

— R-CH —
• SAME AS L-CH

– Cassette Deck Section –

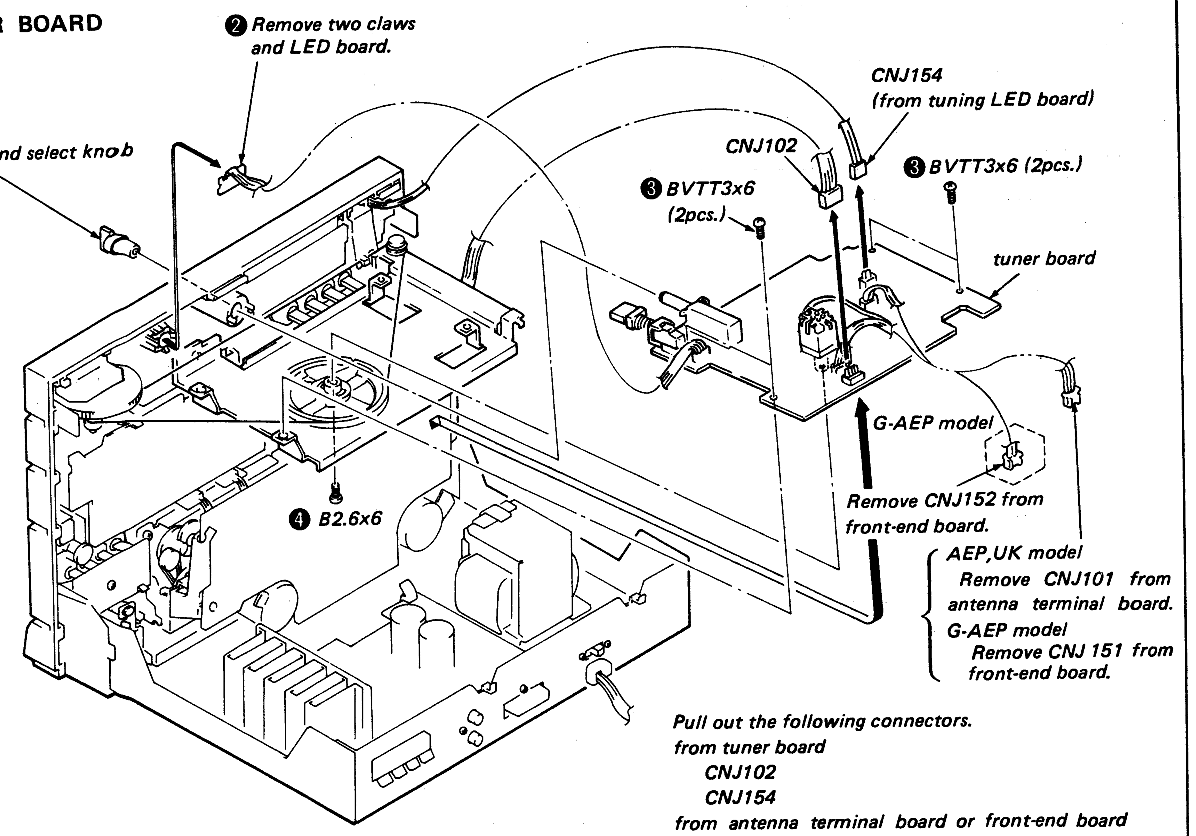

L-CH
DECK A HP
PLAYBACK EQ AMP IC301
PLAYBACK EQ AMP IC302
HRP
DECK B
PB → REC S1-1
S1 REC/PB
REG SIG.
RV304 RECORD BIAS
R-CH
T301
HE
S5 ISS
R-CH
● SAME AS L-CH
BIAS OSC Q351,352
BIAS OSC SWITCH Q391
BIAS OSC SWITCH CONTROL Q316,317
TYPE I:H
TYPE II:H
D330
D331
PLAYBACK EQ SWITCH-1 Q301
TYPE II/IV or TAPE HIGH:H
PLAYBACK EQ SWITCH-2 Q302
TYPE II/IV+TAPE HIGH:H
A PB EQ-1
A PB EQ-2
PLAYBACK EQ SWITCH Q303
TYPE II or TYPE IV:H
DECK A PLAYBACK MUTING
Q361
Q304
DECK B PLAYBACK MUTING
AMS SIG.
TAPE DUBBING SWITCH (OFF → ON)
S1-4 PB → REC
Q318
+10V
TAPE DUBBING:H
D334
TYPE II/IV
B MUTE RELEASE
A PB EQ-1
A PB EQ-2
A MUTE RELEASE
TAPE DUBBING
REC
TYPE I
TYPE II
DOLBY NR/LINE AMP IC303
REC IN
PB IN
REC/PB SELECT
DOLBY
LINE OUT
PB INVERTING INPUT
OVER SHOOT AMP INPUT
VARIABLE FILTER
REC:H PB:L
D301
D401
ON
OFF
S2-2
DOLBY NR
Q321
D355
-10V
DOLBY OFF SWITCH
PHONO DUBBING:H
RV303 RECORD LEVEL
RECORD AMP IC303
Q305
RECORD MUTING
D321
S2-1
REC MUTE
PHONO DUBBING
Q312 DECK A MONITOR SWITCH
Q313 LINE MUTING
AGC Q362
LINE AMP IC304
AGC AMP Q358
RECT D302,303
AGC CONTROL Q357
AGC SWITCH Q356
RECORD EQ SWITCH
NORMAL SPEED
HIGH SPEED
Q306 TYPE I
Q307 TYPE II
Q308 TYPE IV
Q309 TYPE I
Q310 TYPE II
Q311 TYPE IV
IC355
IC354
Q314 PLAYER INPUT MUTING
Q315 LINE INPUT MUTING
PHONO DIRECT L
REC OUT L
PHONO DIRECT R
REC OUT R
TAPE L
TAPE R
TO AMP SECTION
A
E
B
F
C
D
DECK B PB:H TAPE DUBBING:H
REC:H TAPE DUBBING:L
D304
D320
Q319 LINE MUTING SWITCH
+10V
GND
-10V
MOTOR B+
MOTOR GND
G
H
I
J
K
TAPE DUBBING
TAPE HIGH
REC
TYPE IV
TYPE II
TYPE I
PHONO DUBBING
TYPE II/IV
TAPE DUBBING
NORMAL SPEED REC:H
D354 SPEED HIGH
D323
Q320 NORMAL SPEED RECORD EQ SWITCH
D351 MANUAL REC
MANUAL RECORD LED SWITCH Q348,349
AMS CONTROL IC305
SOLENOID DRIVE Q353,392
PM AMS
TC DIRECT FUNCTION
DECK A MUTING RELEASE:L
DECK A FWD:H
IC352
D311
D310
D306
D307
DECK B MUTING RELEASE:L
DECK B FWD:H
DECK B MOTOR ON/OFF SWITCH
IC353
FF/REW:L
D305
DECK B MUTING RELEASE
D308
D309
D328
D329
DECK A MUTING RELEASE
DECK B MOTOR ON:H
TYPE II/IV +TAPE HIGH:H
IC354
D313
D312
DECK A TAPE TYPE/HIGH SPEED DUBBING DET
D314
S304 TYPE II/IV TAPE TYPE SELECT
S302 FWD
S303 FF/REW
S301 MOTOR
DECK A
TAPE HIGH
DECK A MOTOR ON:L
DECK A MOTOR ON/OFF SWITCH Q354,393
M1 DECK A MOTOR
DECK A MOTOR SPEED SWITCH (NORMAL/HIGH) Q371
MOTOR B+
D332
DECK B MOTOR ON:H
DECK B MOTOR ON/OFF SWITCH Q394
M2 DECK B MOTOR
DECK B MOTOR SPEED SWITCH (NORMAL/HIGH) Q355,372
TAPE DUBBING HIGH:H
TC DIRECT FUNCTION
TYPE I:H
IC353
IC354
TYPE II:H
TYPE IV:H
DECK B TAPE TYPE DET
D316
D317
D315
D325
D326
D327
S314 FF/REW
S312 FWD
S313 REC
S311 MOTOR
S316 TYPE IV
S315 TYPE II/IV
TAPE TYPE SELECT
DECK B
TAPE DUBBING DET IC351
TAPE DUBBING :H
D319
PHONO DUBBING :L
PHONO DUBBING :H
D318
PLAYER DUBBING DET
S3 TAPE DUBBING
S4 PHONO DUBBING
S2-3 DUBBING SPEED
S2-3-2
S2-3-1 (TAPE)
HIGH
NORMAL
TAPE DUBBING HIGH:H
TAPE DUBBING LED SWITCH Q322
D352 DUBBING
PLAYER DUBBING LED SWITCH Q323
D353 DUBBING
SYNCHRO START
L
TO AMP SECTION
TC DIRECT FUNCTION
M
TAPE HIGH

SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CASE
Remove case by taking out six screws (M3 case screw) securing case.

TUNER BOARD

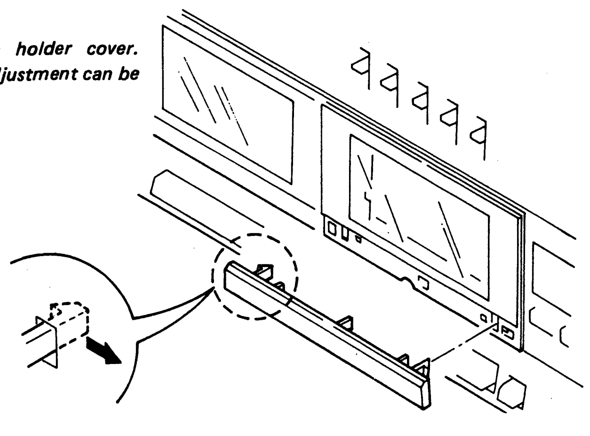

❷ Remove two claws and LED board.
CNJ154 (from tuning LED board)
❶ band select knob
CNJ102
❸ BVTT3x6 (2pcs.)
❸ BVTT3x6 (2pcs.)
tuner board
G-AEP model
❹ B2.6x6
Remove CNJ152 from front-end board.
AEP,UK model
Remove CNJ101 from antenna terminal board.
G-AEP model
Remove CNJ 151 from front-end board.

Pull out the following connectors.
from tuner board
CNJ102
CNJ154
from antenna terminal board or front-end board
CNJ101--- AEP, UK model
CNJ 151, 152 --- G-AEP model

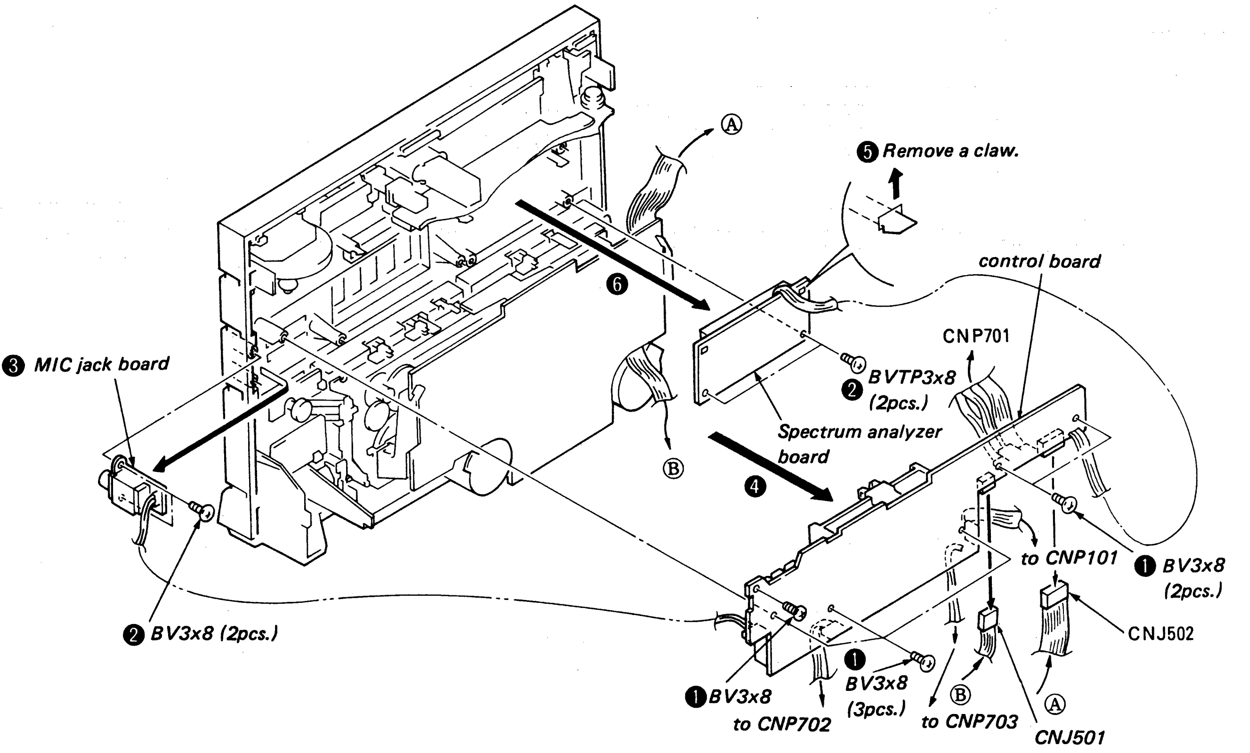
DIAL CORD STRINGING
(See page 16.)

HOLDER COVER

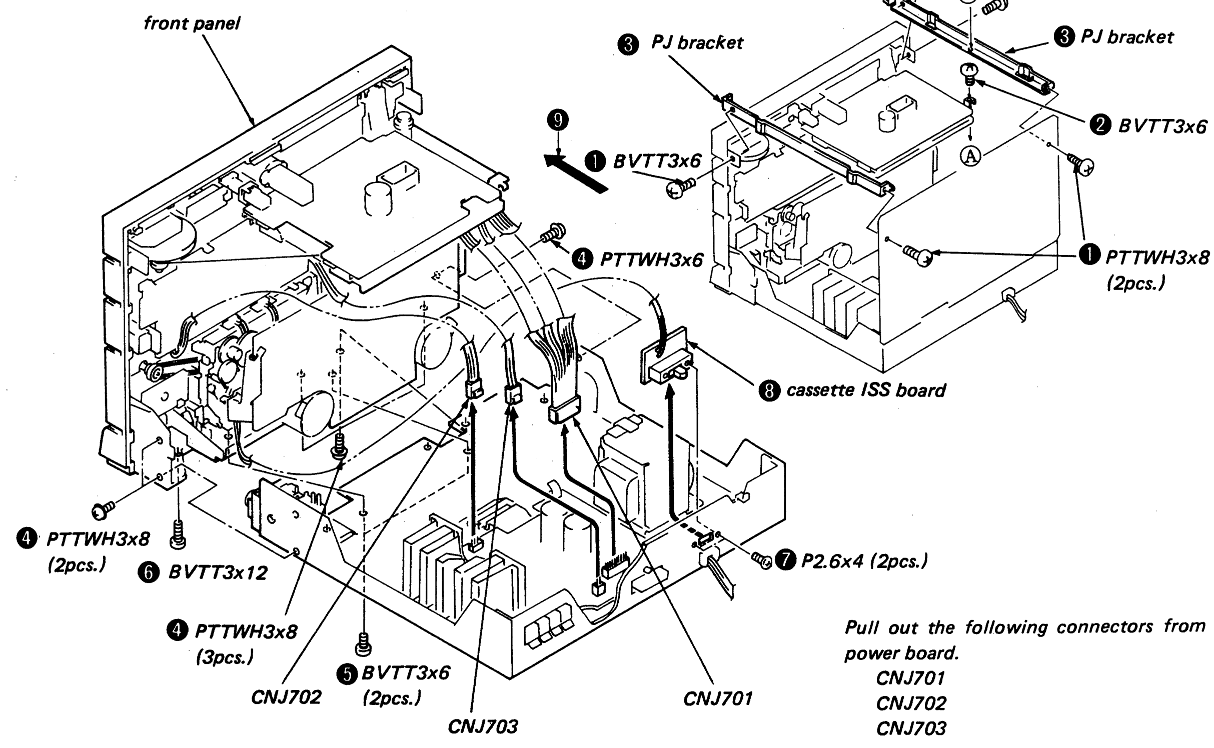
Remove two claws securing the holder cover. Record/playback Head Azimuth adjustment can be performed.



CONTROL BOARD/SPECTRUM ANALYZER BOARD


Ⓐ
❺ Remove a claw.
control board
❻
CNP701
❸ MIC jack board
❷ BVTP3x8 (2pcs.)
Spectrum analyzer board
Ⓑ
❹
to CNP101
❶ BV3x8 (2pcs.)
CNJ502
❷ BV3x8 (2pcs.)
❶ BV3x8 (3pcs.)
❶ BV3x8
to CNP702
Ⓑ
to CNP703
Ⓐ
CNJ501

FRONT PANEL

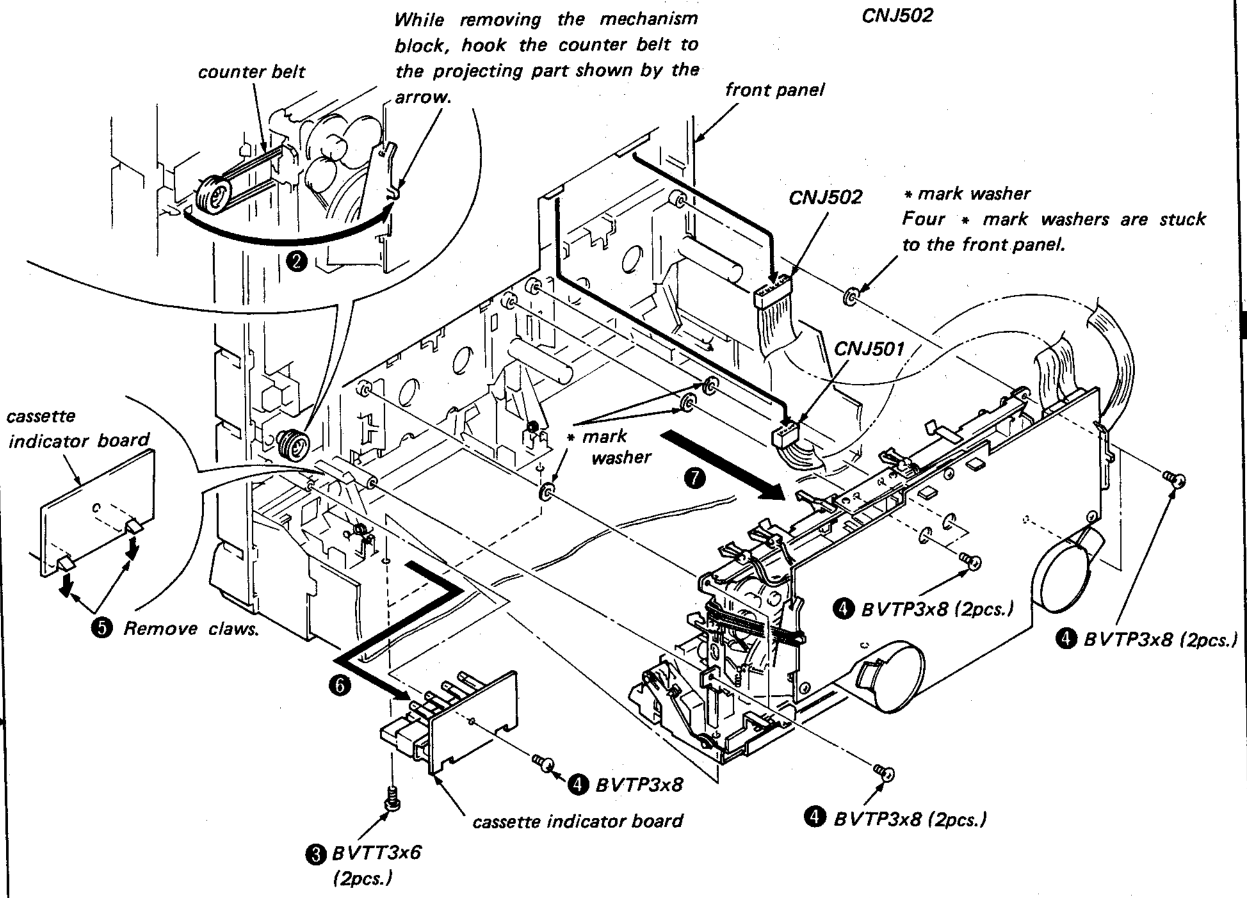

front panel
❸ PJ bracket
Ⓐ
❶ BVTT3x6
❸ PJ bracket
❾
❶ BVTT3x6
❷ BVTT3x6
Ⓐ
❹ PTTWH3x6
❶ PTTWH3x8 (2pcs.)
❽ cassette ISS board
❹ PTTWH3x8 (2pcs.)
❻ BVTT3x12
❼ P2.6x4 (2pcs.)
❹ PTTWH3x8 (3pcs.)
❺ BVTT3x6 (2pcs.)
CNJ702
CNJ703
CNJ701

Pull out the following connectors from power board.
CNJ701
CNJ702
CNJ703

MECHANISM BLOCK

❶ *Press EJECT button and open the cassette holder.*

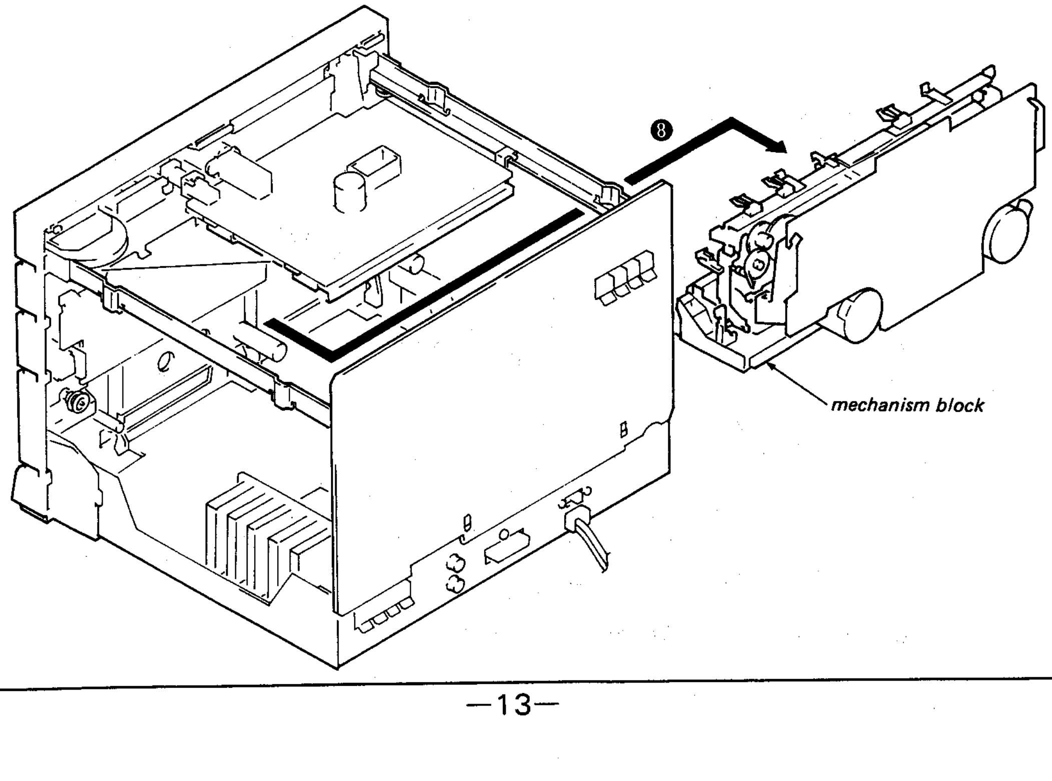
Pull out the following connectors from control board.
CNJ501
CNJ502



While removing the mechanism block, hook the counter belt to the projecting part shown by the arrow.

** mark washer*
*Four * mark washers are stuck to the front panel.*

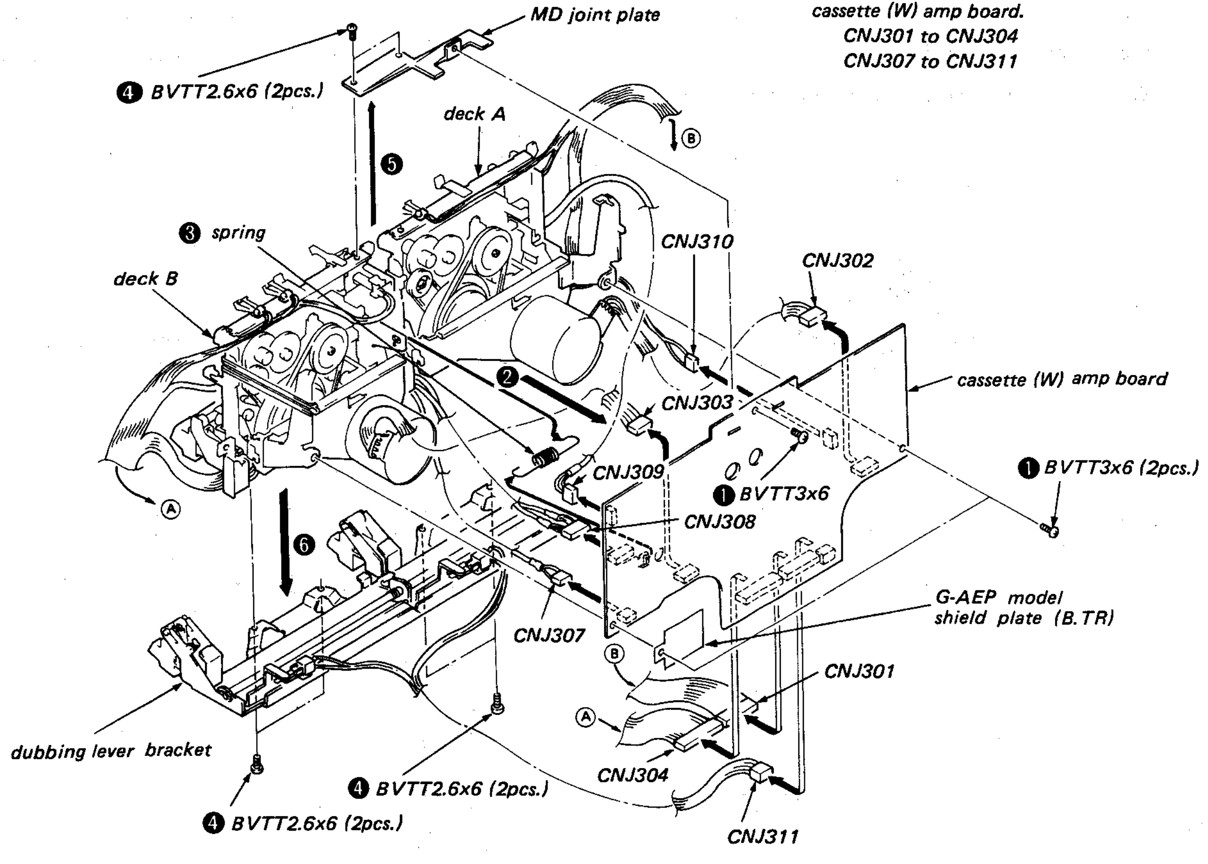
counter belt
❷
front panel
CNJ502
CNJ501
cassette indicator board
❺ Remove claws.
* mark washer
❼
❻
❹ BVTP3x8 (2pcs.)
❹ BVTP3x8 (2pcs.)
❹ BVTP3x8
❹ BVTP3x8 (2pcs.)
cassette indicator board
❸ BVTT3x6 (2pcs.)



❽
mechanism block

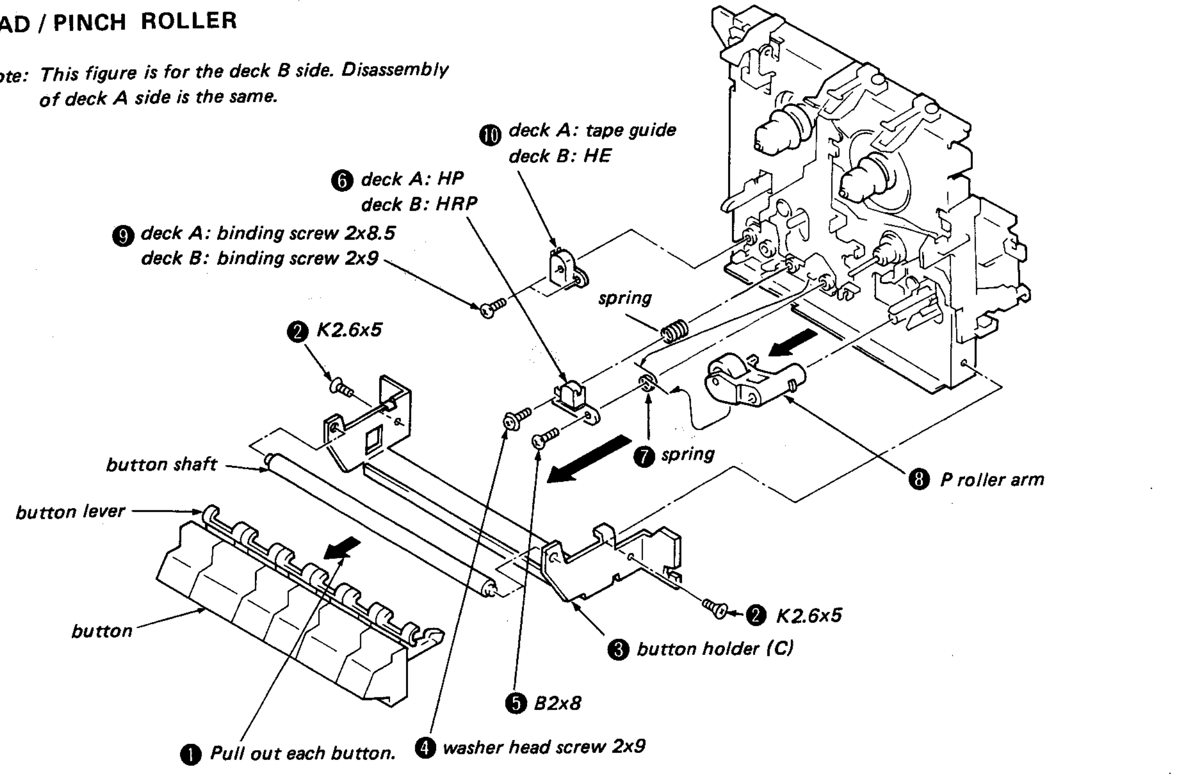
CASSETTE (W) AMP BOARD/DECK A/DECK B

Pull out the following connectors from cassette (W) amp board.
CNJ301 to CNJ304
CNJ307 to CNJ311

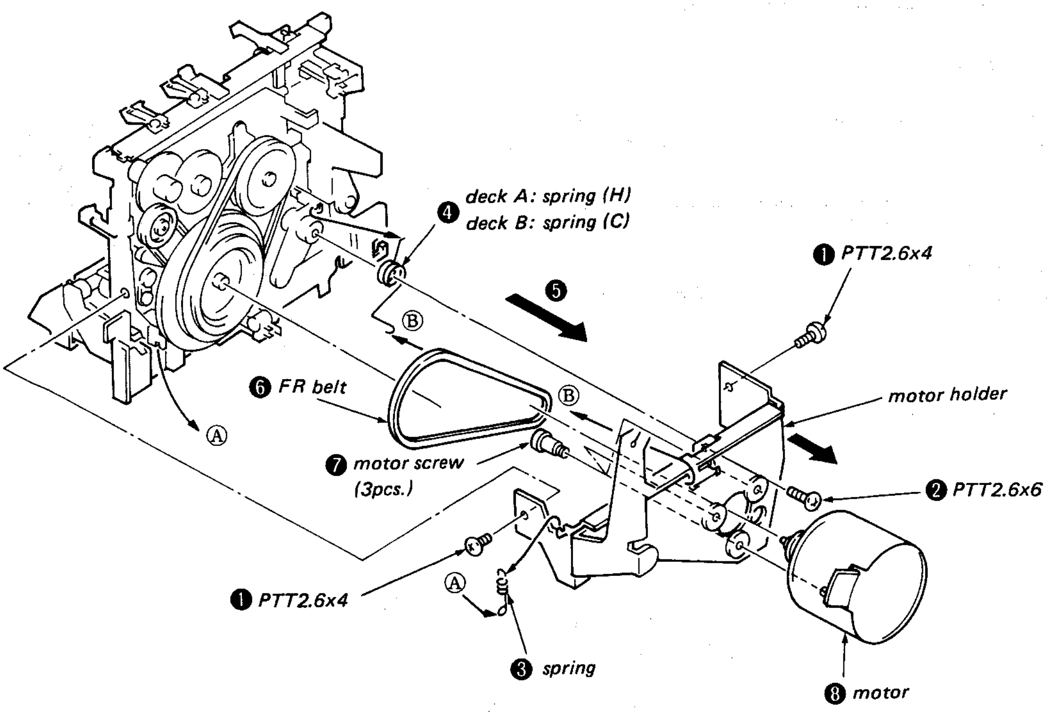

MD joint plate
❹ BVTT2.6x6 (2pcs.)
deck A
❺
Ⓑ
❸ spring
deck B
CNJ310
CNJ302
❷
cassette (W) amp board
CNJ303
❶ BVTT3x6 (2pcs.)
CNJ309
❶ BVTT3x6
Ⓐ
CNJ308
❻
G-AEP model
shield plate (B.TR)
CNJ307
Ⓑ
CNJ301
Ⓐ
dubbing lever bracket
CNJ304
❹ BVTT2.6x6 (2pcs.)
❹ BVTT2.6x6 (2pcs.)
CNJ311

HEAD / PINCH ROLLER

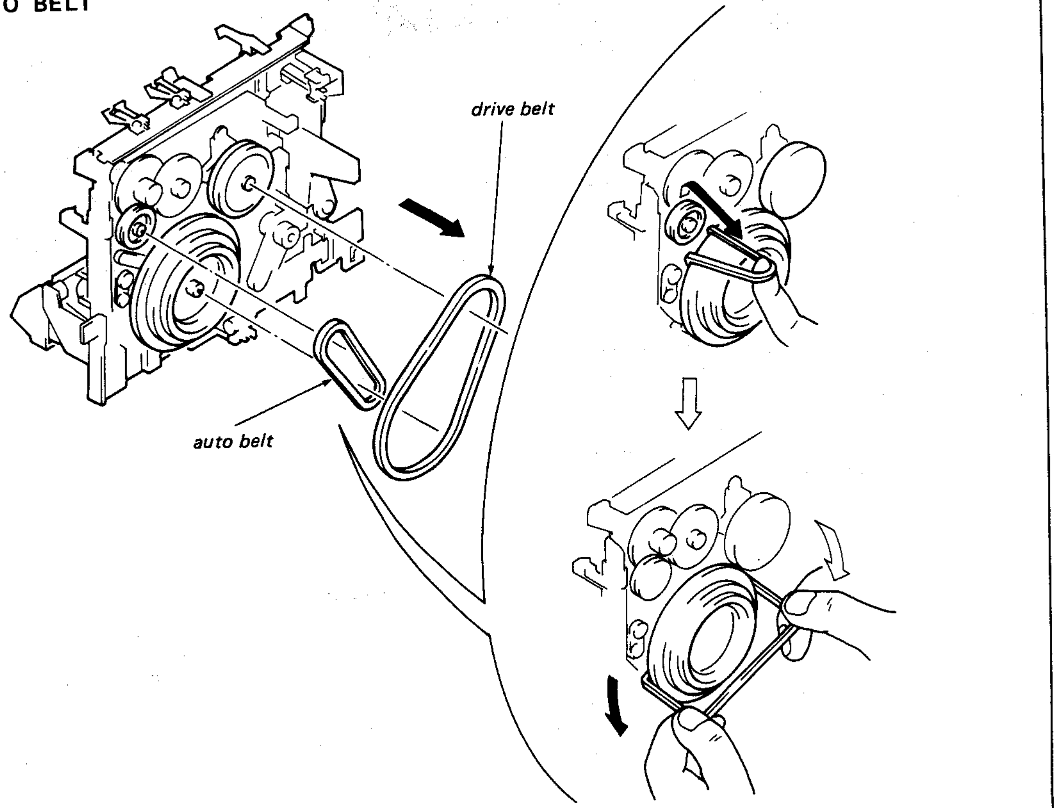
Note: *This figure is for the deck B side. Disassembly of deck A side is the same.*


❿ deck A: tape guide
deck B: HE
❻ deck A: HP
deck B: HRP
❾ deck A: binding screw 2x8.5
deck B: binding screw 2x9
spring
❷ K2.6x5
❼ spring
❽ P roller arm
button shaft
button lever
button
❷ K2.6x5
❸ button holder (C)
❺ B2x8
❶ Pull out each button.
❹ washer head screw 2x9

MOTOR/FR BELT


❹ deck A: spring (H)
deck B: spring (C)
❶ PTT2.6x4
❺
Ⓑ
❻ FR belt
Ⓑ
motor holder
Ⓐ
❼ motor screw
(3pcs.)
❷ PTT2.6x6
❶ PTT2.6x4
Ⓐ
❸ spring
❽ motor

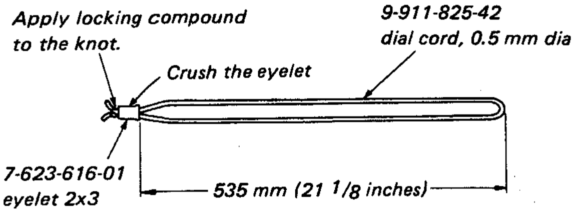
DRIVE BELT/AUTO BELT

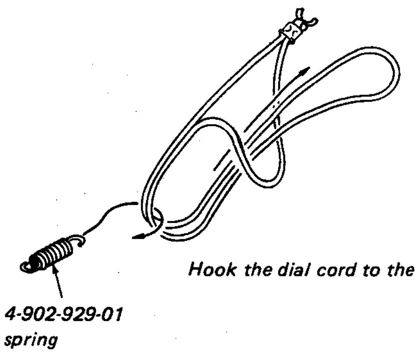

drive belt
auto belt

DIAL CORD STRINGING

- Remove tuner board. (Refer to page 11.)

1) Preparation

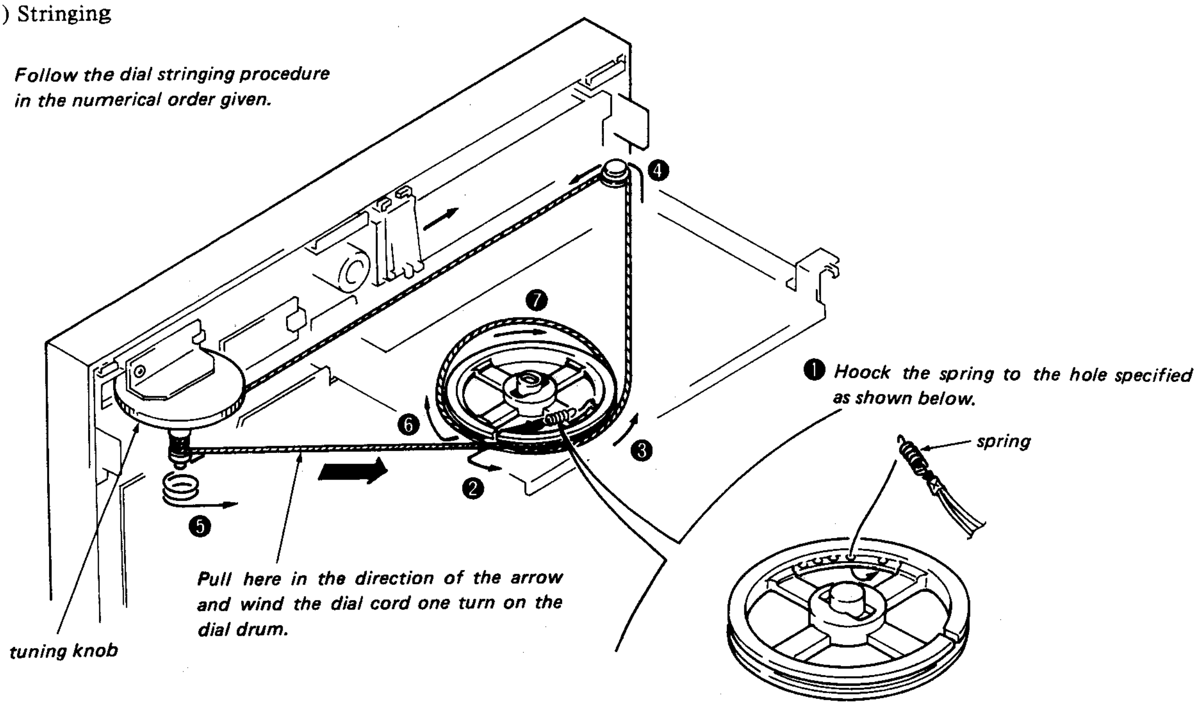

Apply locking compound
to the knot.
Crush the eyelet
9-911-825-42
dial cord, 0.5 mm dia
7-623-616-01
eyelet 2x3
535 mm (21 1/8 inches)


4-902-929-01
spring

Hook the dial cord to the spring.

2) Stringing

Follow the dial stringing procedure in the numerical order given.


❹
❼
❻
❸
❷
❺
spring
tuning knob

❶ *Hoock the spring to the hole specified as shown below.*

Pull here in the direction of the arrow and wind the dial cord one turn on the dial drum.

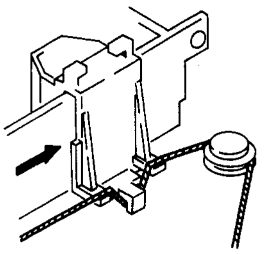
3) Dial Pointer Installation

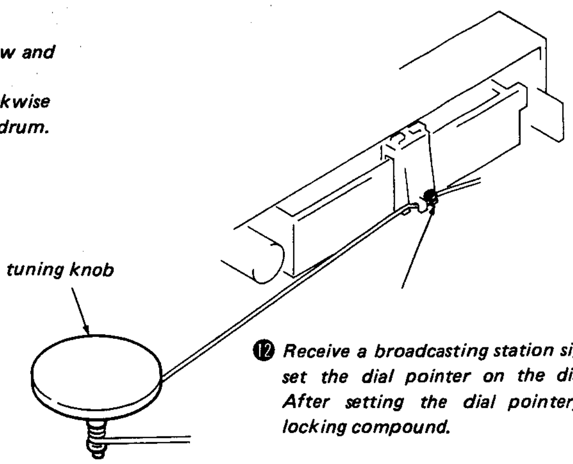
❽ *Turn the tuning knob fully clockwise.*

❾ *Set the dial pointer fully in the direction of the arrow and string the dial pointer.*

❿ *Turn the tuning capacitor shaft fully counterclockwise (MIN) and set the tuning capacitor shaft in the dial drum.*

⓫ *Install tuner board.*




tuning knob

⓬ *Receive a broadcasting station signal and set the dial pointer on the dial scale. After setting the dial pointer, apply locking compound.*

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

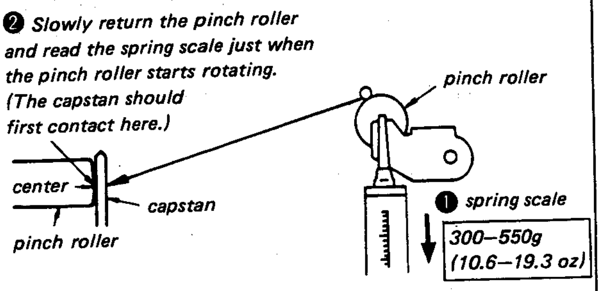
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 – 75 g·cm (0.49 – 1.04 oz·inch)
FWD Back tension	CQ-102C	1 – 6 g·cm (0.014 – 0.08 oz·inch)
FF, REW	CQ-201B	70 – 160 g·cm (0.98 – 2.22 oz·inch)

Pinch Roller Pressure Measurement

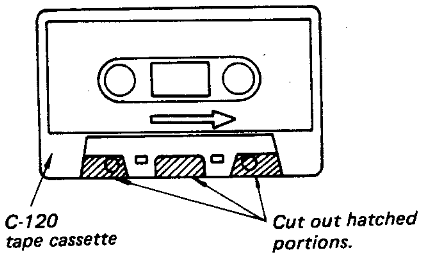
– Playback Mode –


❷ Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating. (The capstan should first contact here.)

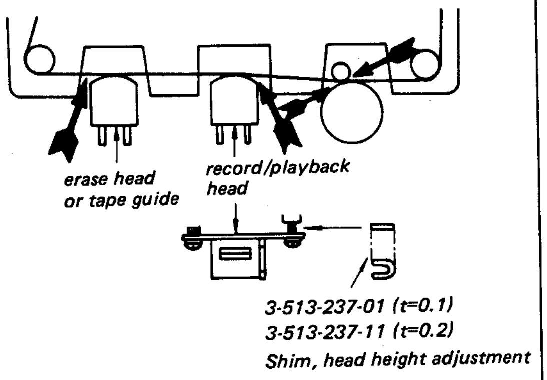
center
capstan
pinch roller
pinch roller
❶ spring scale
300–550g
(10.6–19.3 oz)

Head Height Adjustment

1. Prepare an adjustment cassette as shown below.

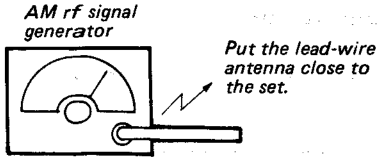

C-120
tape cassette
Cut out hatched portions.

2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrows.

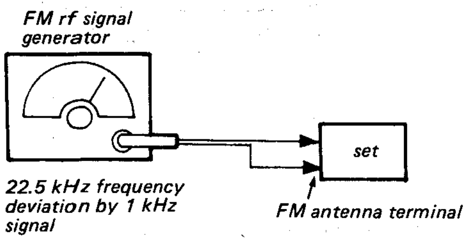

erase head
or tape guide
record/playback
head
3-513-237-01 (t=0.1)
3-513-237-11 (t=0.2)
Shim, head height adjustment

3-2. ELECTRICAL ADJUSTMENTS

TUNER SECTION



30% amplitude modulation by 400 Hz signal
Output level: as low as possible



22.5 kHz frequency deviation by 1 kHz signal

Output level: as low as possible

FM Frequency Coverage Adjustment

- **AEP, UK model**

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	87.1 MHz	L003	maximum
f maximum	109.5 MHz	CT002	

- **G-AEP model**

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	87.4 MHz	RV902	maximum
f maximum	108.25 MHz	RV901	

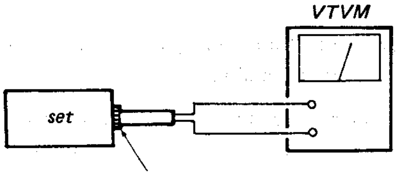
FM Tracking Adjustment

- **AEP, UK model**

SG and set frequency	Adjustment part	Reading on VTVM
87.1 MHz	L001	maximum
109.5 MHz	CT001	

- **G-AEP model**

The FM front-end can not be repaired and it is supplied as the FM front-end block. Therefore, the adjustments are not necessary.



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	515 kHz	L054	maximum
f maximum	1660 kHz	CT054	

MW Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
600 kHz	L051	maximum
1400 kHz	CT051	

MW/LW IF Alignment

SG and set frequency	Adjustment part	Reading on VTVM
1000 kHz	IFT051	maximum

LW Frequency Coverage Adjustment

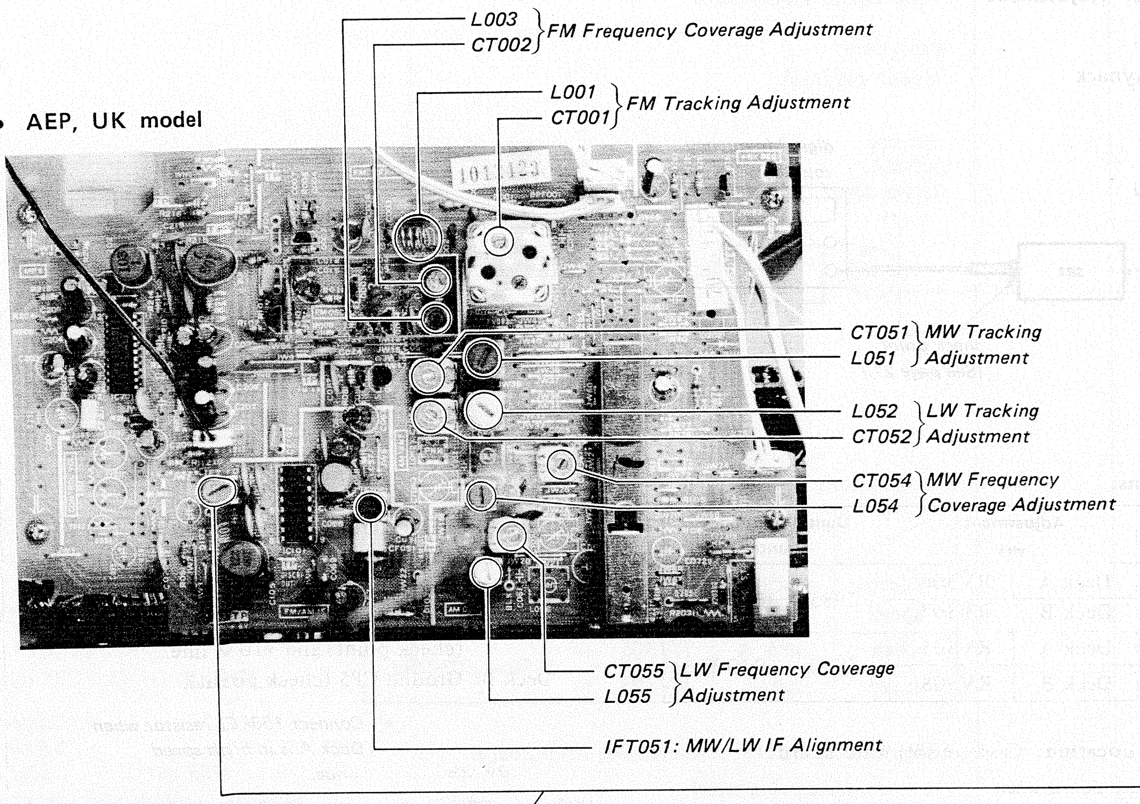
Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	145 kHz	L055	maximum
f maximum	365 kHz	CT055	

LW Tracking Adjustment

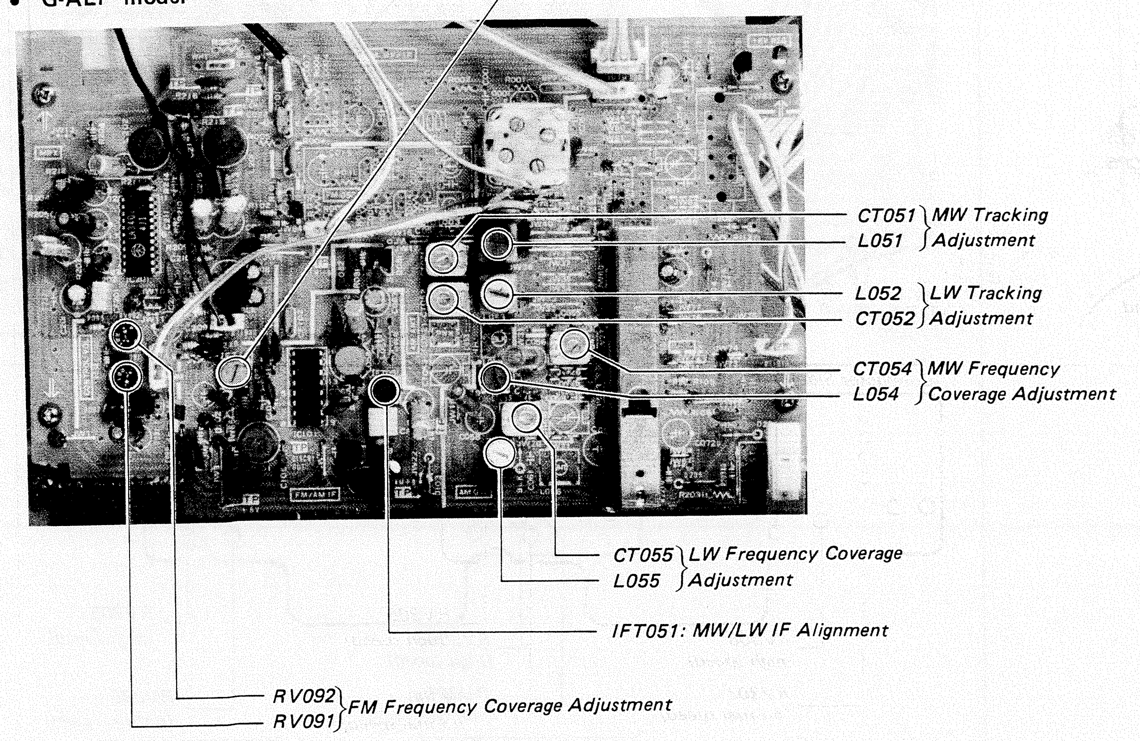
SG and set frequency	Adjustment part	Reading on VTVM
170 kHz	L052	maximum
310 kHz	CT052	

Adjustment Location: Tuner Board

- **AEP, UK model**

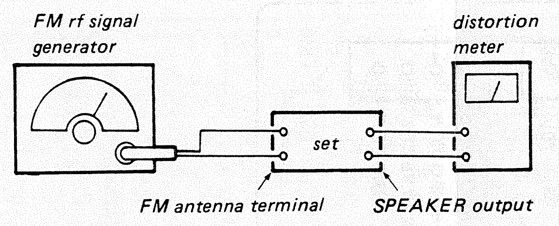

L003
CT002
FM Frequency Coverage Adjustment
L001
CT001
FM Tracking Adjustment
CT051
L051
MW Tracking Adjustment
L052
CT052
LW Tracking Adjustment
CT054
L054
MW Frequency Coverage Adjustment
CT055
L055
LW Frequency Coverage Adjustment
IFT051: MW/LW IF Alignment
IFT101

- **G-AEP model**


CT051
L051
MW Tracking Adjustment
L052
CT052
LW Tracking Adjustment
CT054
L054
MW Frequency Coverage Adjustment
CT055
L055
LW Frequency Coverage Adjustment
IFT051: MW/LW IF Alignment
RV092
RV091
FM Frequency Coverage Adjustment

FM Discriminator Alignment

Procedure:


FM rf signal generator
distortion meter
set
FM antenna terminal
SPEAKER output

Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 1 kHz, 40 kHz deviation
Mode: mono

1. Tune the set to 98MHz.
2. Adjust the core of T101 for a minimum reading on the distortion meter.

HST-700W HST-700W

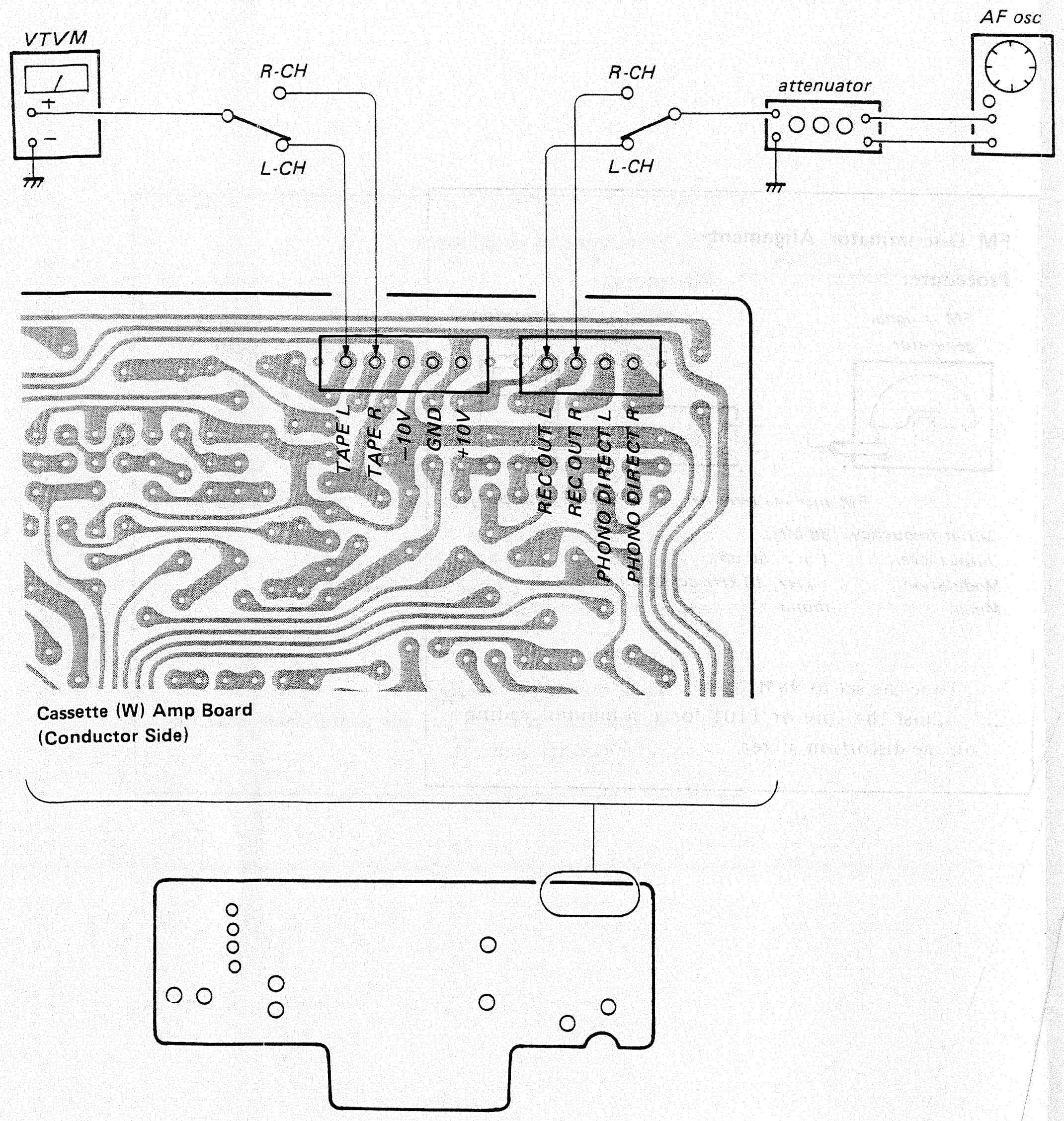
CASSETTE DECK SECTION

Note: The adjustment should be performed in the order given in this service manual. (Playback section may by adjusted earlier than record section.)
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

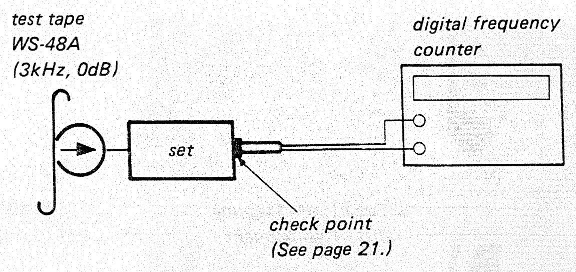
DOLBY NR switch: OFF
REC MUTE switch: OFF
DUBBING SPEED switch: NORMAL
ISS switch: 1

- **Output level check point**
- **Input level check point**


VTVM
R-CH
L-CH
R-CH
L-CH
attenuator
AF osc
TAPE L
TAPE R
—10V
GND
+10V
REC OUT L
REC OUT R
PHONO DIRECT L
PHONO DIRECT R
Cassette (W) Amp Board
(Conductor Side)

Tape Speed Adjustment

Procedure:
Mode: playback

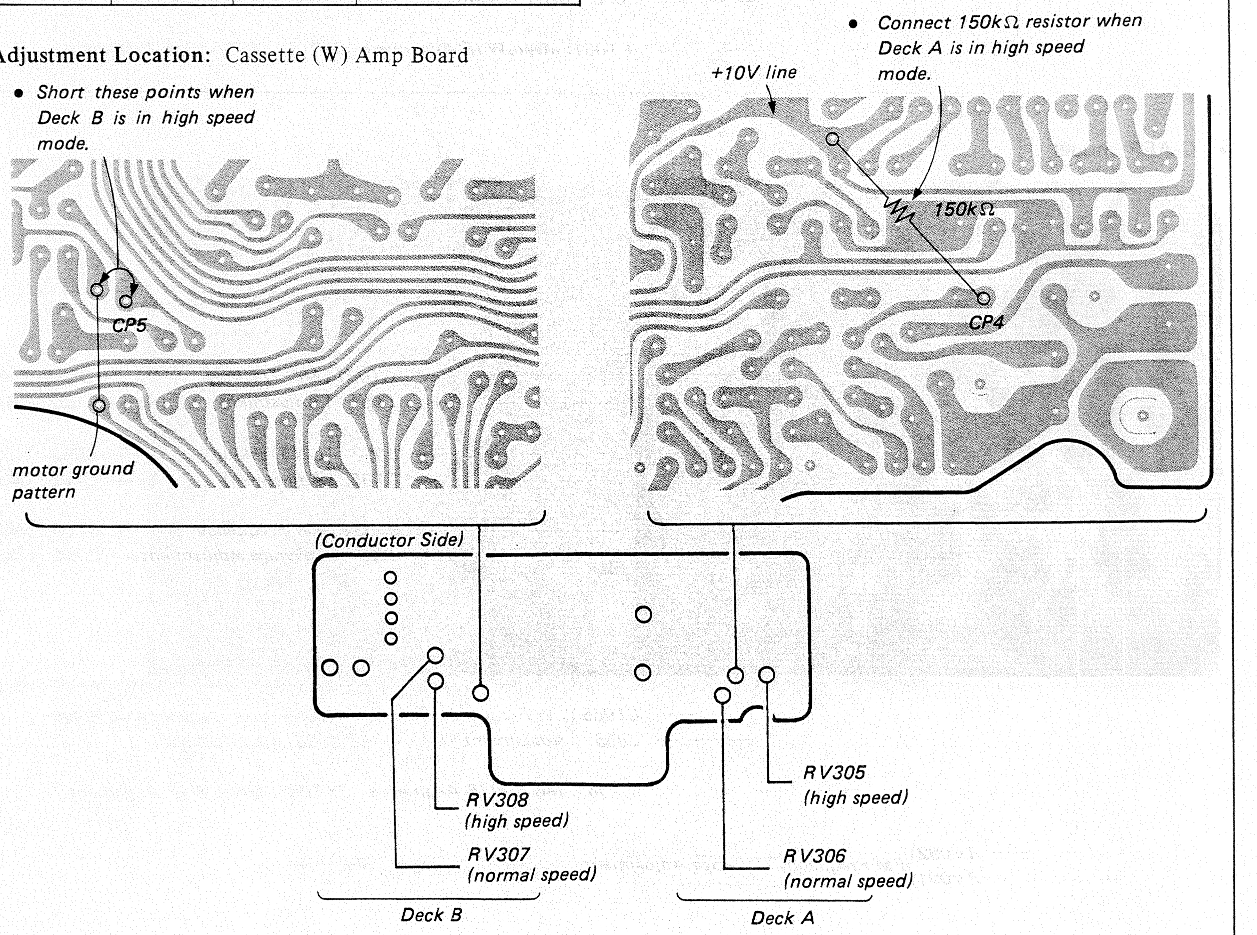

test tape
WS-48A
(3kHz, 0dB)
set
digital frequency
counter
check point
(See page 21.)

Specifications:

		Adjustment part	Digital frequency counter
Normal speed	Deck A	RV306	2985 – 3015 Hz
	Deck B	RV307	
High speed	Deck A	RV305	5970 – 6030 Hz
	Deck B	RV308	

- **HIGH SPEED PROCEDURE**
Perform the following procedure and place the set in playback mode.
Deck A: Connect 150kΩ resistor between CP4 (check point) and +10V line.
Deck B: Ground CP5 (check point).

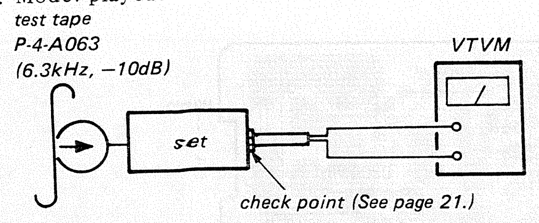
Adjustment Location: Cassette (W) Amp Board


• Short these points when Deck B is in high speed mode.
CP5
motor ground pattern
• Connect 150kΩ resistor when Deck A is in high speed mode.
+10V line
150kΩ
CP4
(Conductor Side)
RV308
(high speed)
RV307
(normal speed)
Deck B
RV305
(high speed)
RV306
(normal speed)
Deck A

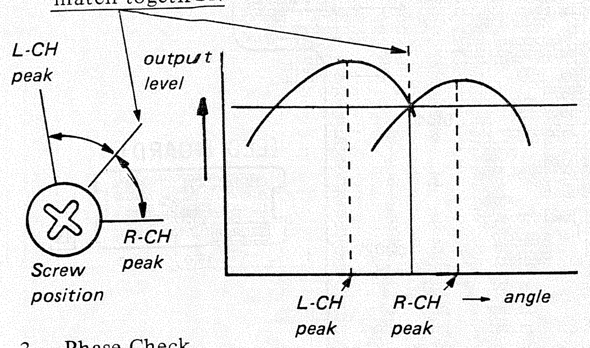
Record/playback Head Azimuth Adjustment

Procedure:

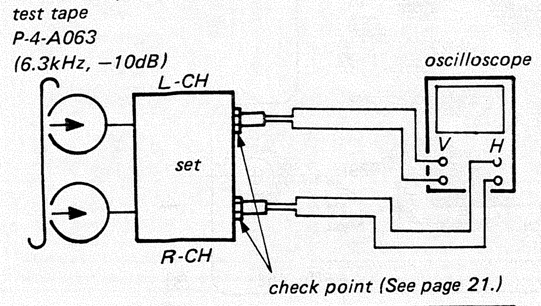
1. Mode: playback

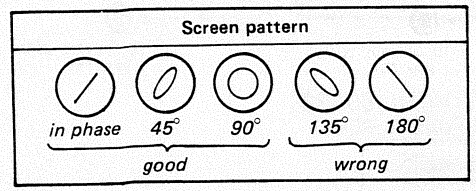

test tape
P-4-A063
(6.3kHz, −10dB)
VTVM
set
check point (See page 21.)

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together.



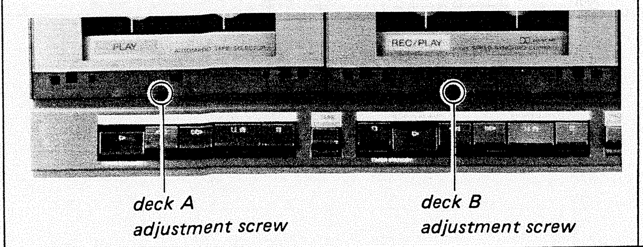
3. Phase Check
   Mode: playback


test tape
P-4-A063
(6.3kHz, −10dB)
L-CH
oscilloscope
set
V
H
R-CH
check point (See page 21.)


Screen pattern
in phase
45°
90°
135°
180°
good
wrong

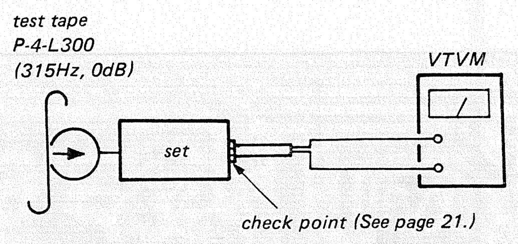
4. After the adjustment, lock the screws with locking compound.

Adjustment Location: Remove the holder cover.
(See page 11.)


deck A
adjustment screw
deck B
adjustment screw

Playback Level Adjustment

Procedure:

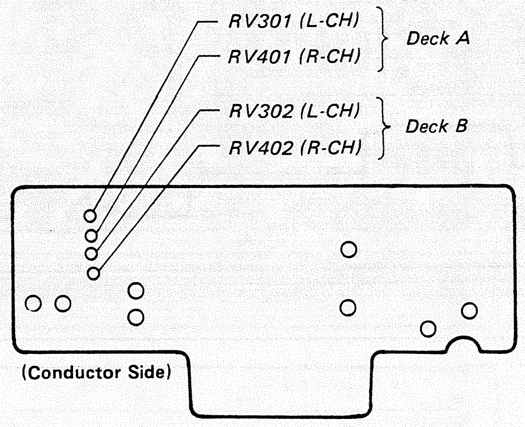

test tape
P-4-L300
(315Hz, 0dB)
VTVM
set
check point (See page 21.)

Adjust the following adjustable resistors so that the VTVM reading is 0.29−0.32V(−8.5 to −7.5dB).

Deck A: RV301 (L-CH), RV401 (R-CH)
Deck B: RV302 (L-CH), RV402 (R-CH)

Check that the Line out level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: Cassette (W) Amp Board


RV301 (L-CH)
RV401 (R-CH)
Deck A
RV302 (L-CH)
RV402 (R-CH)
Deck B
(Conductor Side)

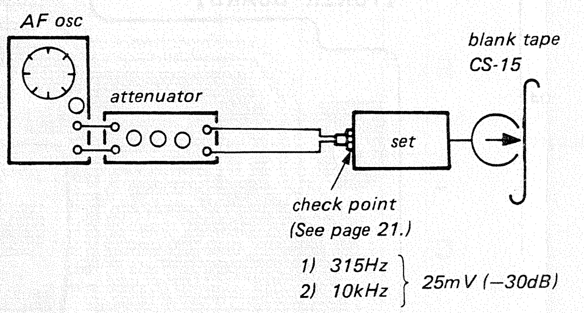
Record Bias Adjustment . . . . . Deck B only

Setting:

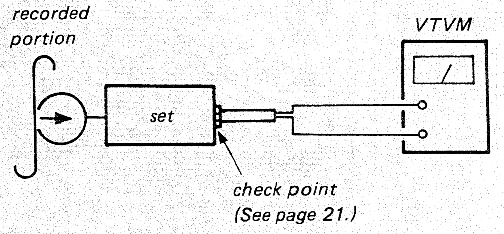
FUNCTION switch: CD/AUX

Procedure:

1. Mode: record

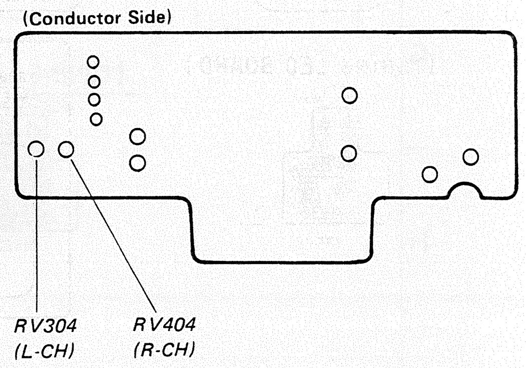

AF osc
attenuator
blank tape
CS-15
set
check point
(See page 21.)
1) 315Hz
2) 10kHz
25mV (−30dB)

2. Mode: playback


recorded
portion
VTVM
set
check point
(See page 21.)

Confirm that the 10 kHz playback output is −1 dB ± 1 dB relative to the 315 Hz output. If necessary, adjust RV304 (L-CH), RV404 (R-CH) and repeat the steps given above.

Adjustment Location: Cassette (W) Amp Board


(Conductor Side)
RV304
(L-CH)
RV404
(R-CH)

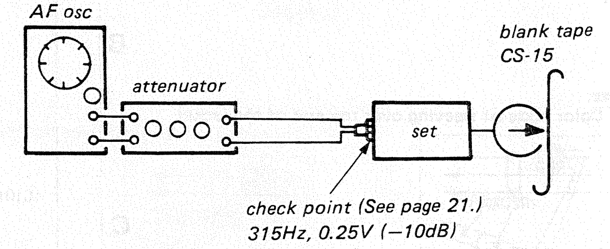
Record Level Adjustment . . . . . Deck B only

Setting:

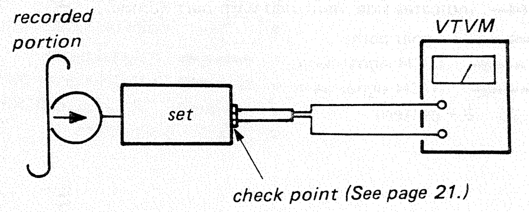
FUNCTION switch: CD/AUX

Procedure:

1. Mode: record


AF osc
attenuator
blank tape
CS-15
set
check point (See page 21.)
315Hz, 0.25V (−10dB)

2. Mode: playback

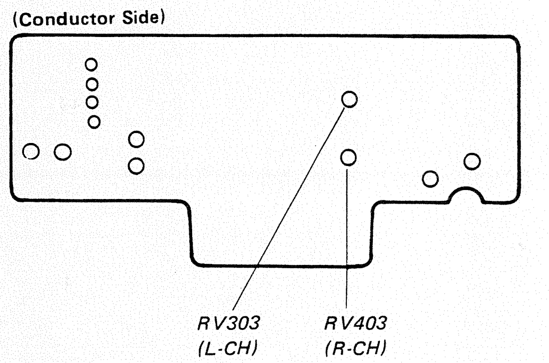

recorded
portion
VTVM
set
check point (See page 21.)

3. Play back the signal recorded in step 1. Confirm that the signal levels is within the specification below. If necessary, adjust RV303 (L-CH), RV403 (R-CH) and repeat the step 1-3.

Specification:

LINE OUT level: 0.29−0.32V
(−8.5 to −7.5dB)

Adjustment Location: Cassette (W) Amp Board


(Conductor Side)
RV303
(L-CH)
RV403
(R-CH)

SECTION 4
DIAGRAMS

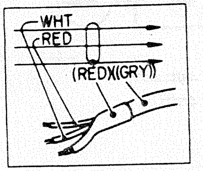
4-1. TUNER SECTION MOUNTING DIAGRAM (AEP, UK model)

– Conductor Side –

Refer to page 34 for semiconductor lead layouts.

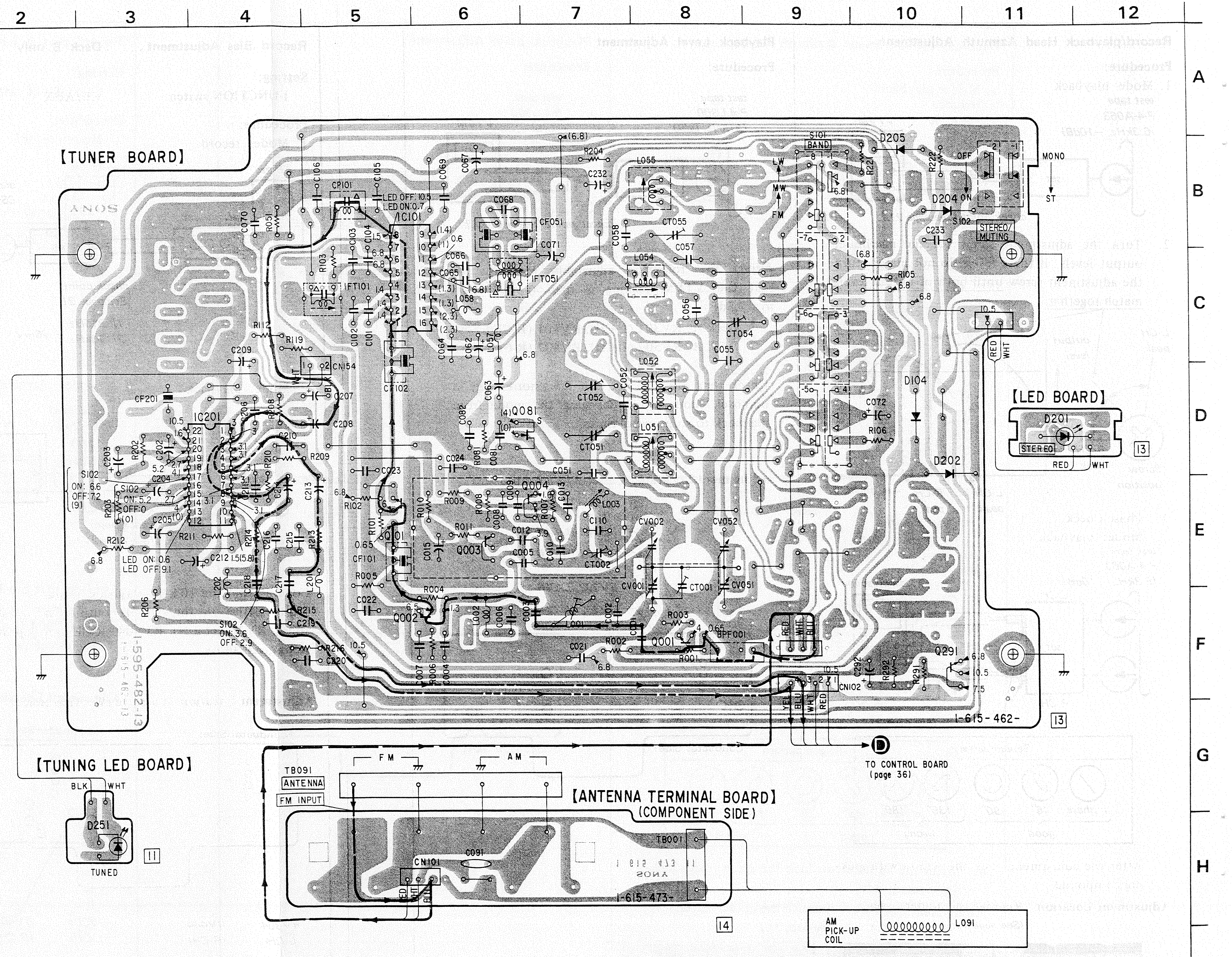
Note:

- Color code of sleeving over the end of the jacket.


WHT
RED
(RED)(GRY)

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⬚←— : indicates side identified with part number.
- ▬▬➡▬ : signal path
- ▬▬ ▬ ▬▬➡ : L-CH signal path
- ▬ ▬ ▬ ▬➡ : R-CH signal path
- ▨ : B + pattern

Q IC	D
	205
	204
IC101	
	104
081	201
IC201	202
004 101 003	
002 001 291	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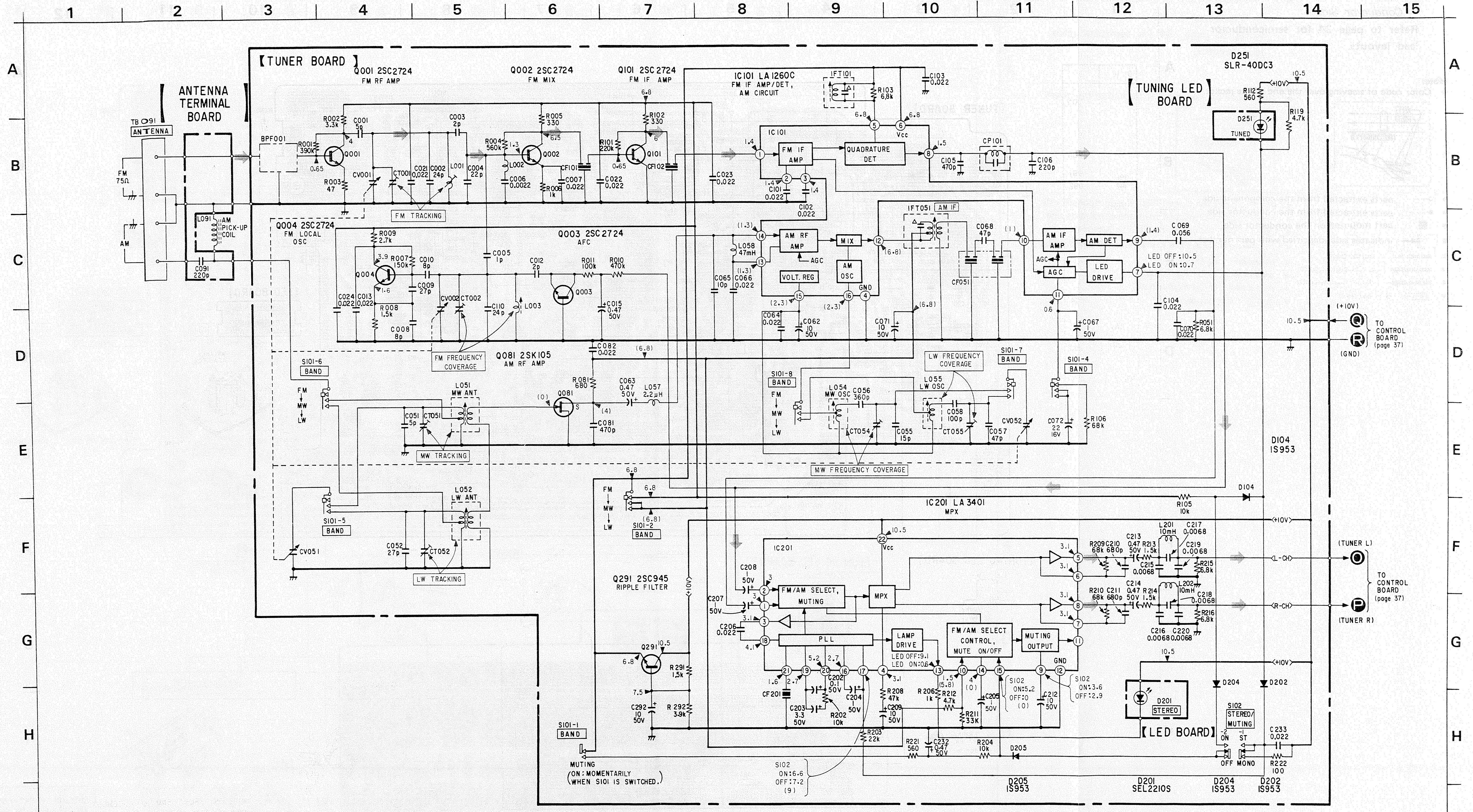
12
A
B
C
D
E
F
G
H
I
[TUNER BOARD]
SONY
IC101
IC201
Q081
Q004
Q003
Q002
Q001
Q291
D205
D204
D104
D202
S101 BAND
LW
MW
FM
S102
OFF
ON
STEREO/MUTING
MONO
ST
LED OFF:10.5
LED ON:0.7
CP101
IFT101
IFT051
CF051
CF101
CF201
BPF001
L055
L054
L052
L051
L003
CV002
CV052
CV001
CV051
CT001
CT002
CT051
CT052
CT054
CT055
CN154
CN102
S102 ON: 6.6 OFF: 7.2
LED ON: 0.6 LED OFF: 9.1
S102 ON: 3.6 OFF: 2.9
1-595-482-13
1-615-462-13
1-615-462-
13
YEL
BLU
WHT
RED
TO CONTROL BOARD (page 36)
[LED BOARD]
D201
STEREO
RED
WHT
13
[TUNING LED BOARD]
BLK
WHT
D251
TUNED
11
TB091
ANTENNA
FM INPUT
FM
AM
[ANTENNA TERMINAL BOARD] (COMPONENT SIDE)
TB001
CN101
C091
1-615-473-
14
AM PICK-UP COIL
L091

4-2. TUNER SECTI ON SCHEMATIC DIAGRAM (AEP, UK model)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14
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A
B
C
D
E
F
G
H
I
ANTENNA TERMINAL BOARD
TB 091 ANTENNA
FM 75Ω
AM
L091 AM PICK-UP COIL
C091 220p
TUNER BOARD
BPF001
Q001 2SC2724 FM RF AMP
Q002 2SC2724 FM MIX
Q101 2SC2724 FM IF AMP
Q003 2SC2724 AFC
Q004 2SC2724 FM LOCAL OSC
Q081 2SK105 AM RF AMP
FM TRACKING
FM FREQUENCY COVERAGE
MW TRACKING
LW TRACKING
L051 MW ANT
L052 LW ANT
S101-6 BAND
S101-5 BAND
S101-8 BAND
S101-7 BAND
S101-4 BAND
S101-2 BAND
S101-1 BAND
FM
MW
LW
IC101 LA1260C FM IF AMP/DET, AM CIRCUIT
FM IF AMP
QUADRATURE DET
AM RF AMP
MIX
AM OSC
VOLT. REG
AGC
AM IF AMP
AM DET
LED DRIVE
IFT101
IFT051 AM IF
CF051
CP101
L054 MW OSC
L055 LW OSC
LW FREQUENCY COVERAGE
MW FREQUENCY COVERAGE
LED OFF:10.5
LED ON:0.7
TUNING LED BOARD
D251 SLR-40DC3
TUNED
D104 IS953
IC201 LA3401 MPX
FM/AM SELECT, MUTING
MPX
PLL
LAMP DRIVE
LED OFF:9.1
LED ON:0.6
FM/AM SELECT CONTROL, MUTE ON/OFF
MUTING OUTPUT
Q291 2SC945 RIPPLE FILTER
S102 ON:5.2 OFF:0
S102 ON:3.6 OFF:2.9
S102 ON:6.6 OFF:7.2 (9)
LED BOARD
D201 STEREO
S102 STEREO/MUTING
ON ST
OFF MONO
MUTING
(ON: MOMENTARILY WHEN S101 IS SWITCHED.)
(+10V)
TO CONTROL BOARD (page 37)
(GND)
(TUNER L)
(TUNER R)
L-CH
R-CH
D205 IS953
D201 SEL2210S
D204 IS953
D202 IS953

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ➡ : signal path.
- △ : internal component.
- ▭ : fusible resistor.
- ━━ : B + bus.
- ━ ━ : B – bus.
- ☐ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (50 kΩ/V).
  no mark : FM mode } STEREO/MUTING
  ( ) : MW or LW mode } switch : ON
- Voltage variations may be noted due to normal production tolerances.

- **Switch**

Ref. No.	Switch	Position
S101-1 – 8	BAND (-1: MUTING)	FM
S102-1, 2	STEREO/MUTING -1: MODE -2: MUTING	ON

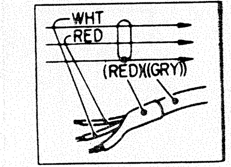
4-3. TUNER SECTION MOUNTING DIAGRAM (G-AEP model)

– Conductor Side –

Refer to page 34 for semiconductor lead layouts.

Note:

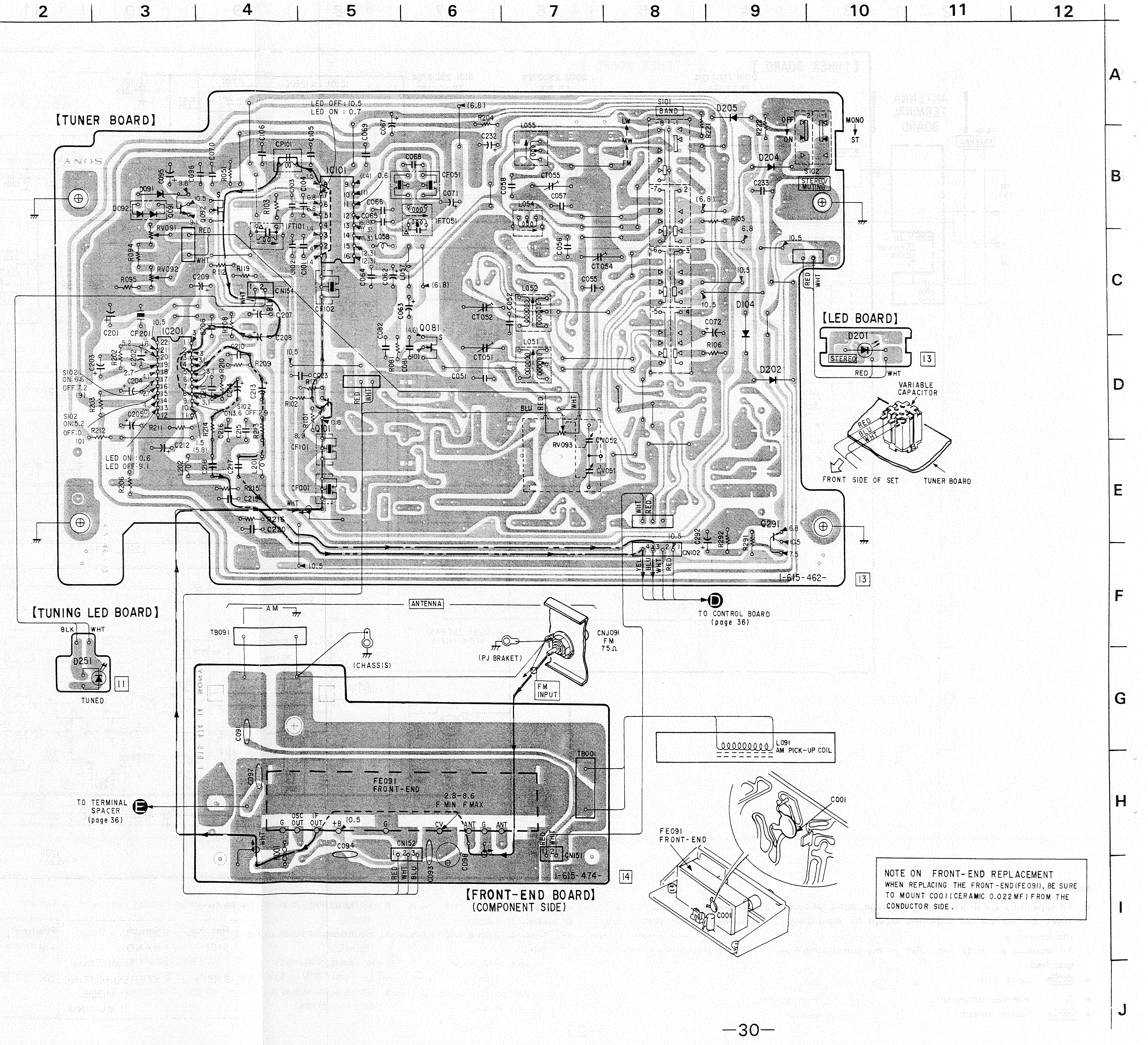
- Color code of sleeving over the end of the jacket.



WHT
RED
(RED)(GRY)

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⬚◀— : indicates side identified with part number.
- ▬▶▬ : signal path
- ▬▬▶ : L-CH signal path
- ▬▬▶ : R-CH signal path
- ▨ : B + pattern

Q IC	D
	205
	204
091 092	091 092
IC101	
	104
081	201
IC201	202
101	
291	



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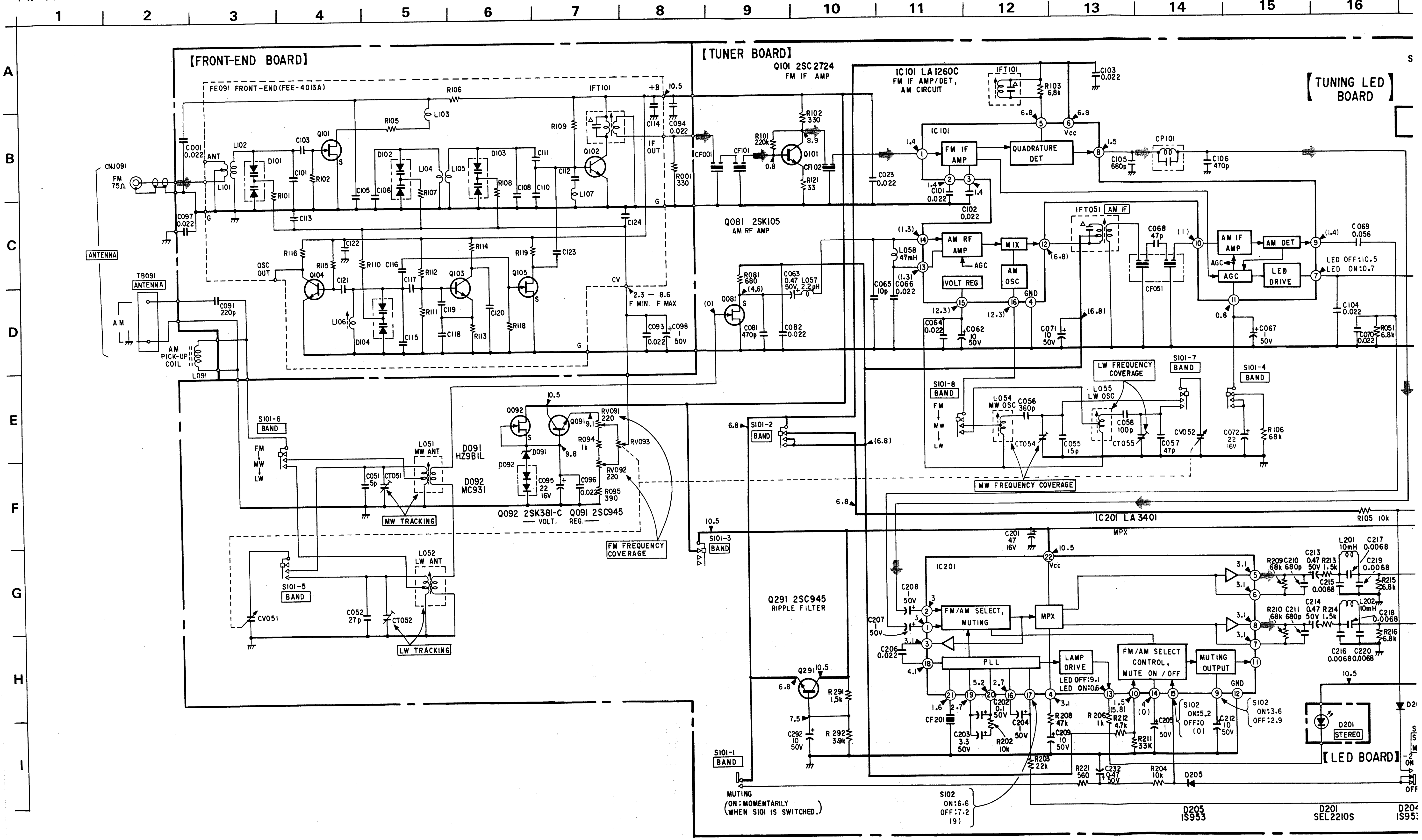
12
A
B
C
D
E
F
G
H
I
J
[TUNER BOARD]
LED OFF : 10.5
LED ON : 0.7
S101 BAND
LW
MW
FM
D205
MONO
ST
S102 STEREO/MUTING
D204
IC101
IC201
Q081
Q101
Q291
RV091
RV092
RV093
CF101
CFD01
CN151
CN152
CN154
CN102
LED ON : 0.6
LED OFF : 9.1
1-615-462-
13
[LED BOARD]
D201
STEREO
RED
WHT
VARIABLE CAPACITOR
RED
BLU
WHT
FRONT SIDE OF SET
TUNER BOARD
TO CONTROL BOARD (page 36)
[TUNING LED BOARD]
BLK
WHT
D251
11
TUNED
ANTENNA
AM
TB091
(CHASSIS)
(PJ BRAKET)
CNJ091 FM 75Ω
FM INPUT
TB001
FE091 FRONT-END
2.8-8.6
F MIN F MAX
G
OSC OUT
IF OUT
+B
10.5
CV
ANT
TO TERMINAL SPACER (page 36)
1-615-474-
14
[FRONT-END BOARD] (COMPONENT SIDE)
L091 AM PICK-UP COIL
FE091 FRONT-END
C001

NOTE ON FRONT-END REPLACEMENT
WHEN REPLACING THE FRONT-END (FE091), BE SURE TO MOUNT C001 (CERAMIC 0.022MF) FROM THE CONDUCTOR SIDE.

4-4. TUNER SECTION SCHEMATIC DIAGRAM (G-AEP model)


1
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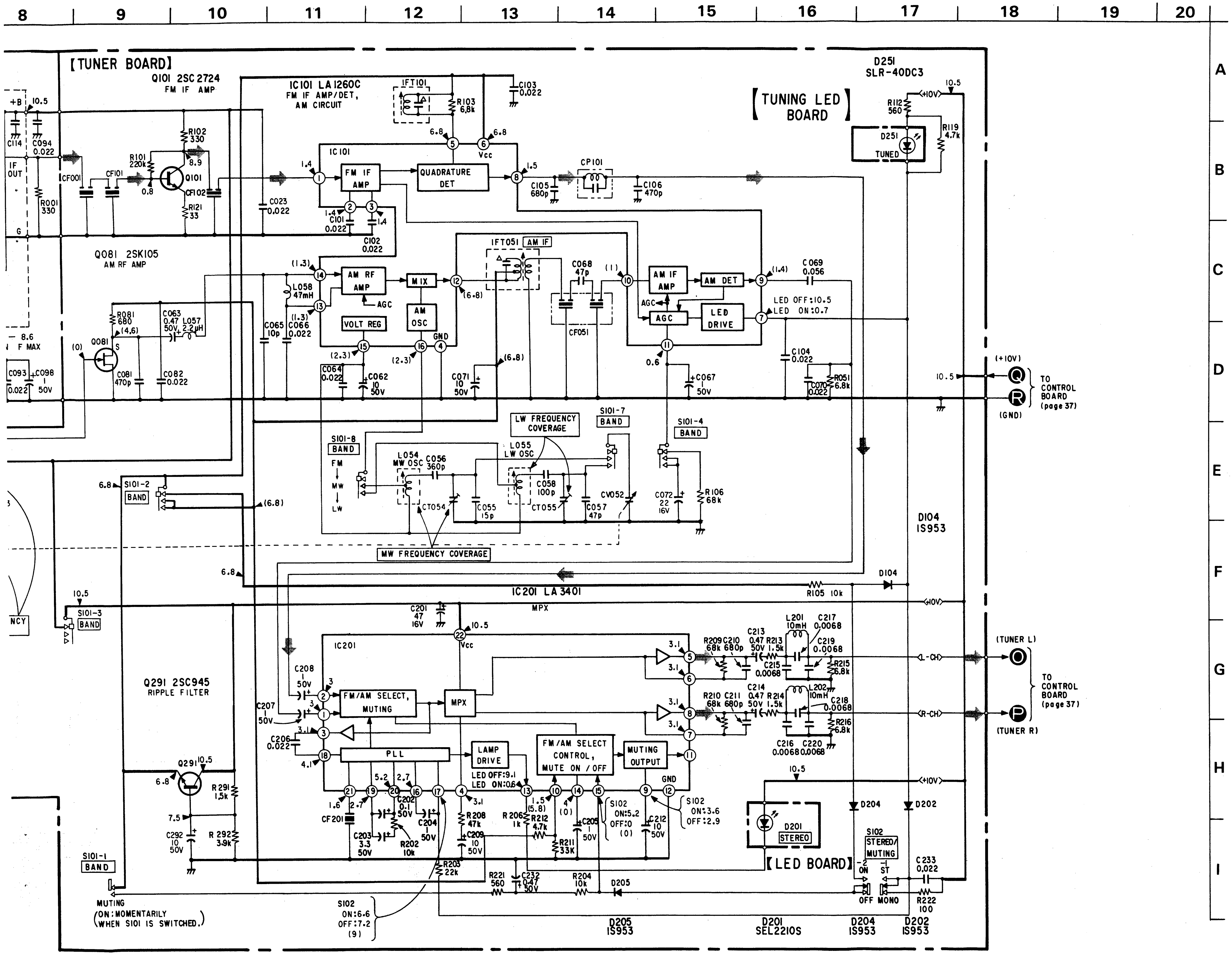
16
A
B
C
D
E
F
G
H
I
[FRONT-END BOARD]
FE091 FRONT-END (FEE-4013A)
[TUNER BOARD]
Q101 2SC2724
FM IF AMP
IC101 LA1260C
FM IF AMP/DET,
AM CIRCUIT
[TUNING LED BOARD]
CNJ091
FM 75Ω
ANTENNA
TB091
ANTENNA
AM
AM PICK-UP COIL
L091
ANT
L101
L102
D101
R101
C101
R102
C103
Q101
C001 0.022
C097 0.022
C113
R106
R105
L103
D102
L104
L105
D103
R107
R108
C105
C106
C108
C110
C111
C112
L107
Q102
R109
IFT101
+B
10.5
C114
C094 0.022
IF OUT
CF001
R001 330
G
C124
OSC OUT
R116
R115
C122
C121
Q104
R110
C116
C117
R112
Q103
R114
R119
C123
Q105
L106
D104
R111
C119
C118
C115
R113
C120
R118
CV
2.3 – 8.6
F MIN F MAX
C093 0.022
C098 1 50V
C091 220p
CF101
R101 220k
0.8
R102 330
8.9
CF102
R121 33
C023 0.022
Q081 2SK105
AM RF AMP
Q081
R081 680
(4.6)
(0)
C063 0.47 50V
L057 2.2μH
C081 470p
C082 0.022
C065 10p
C066 0.022
IFT101
R103 6.8k
C103 0.022
6.8
Vcc
IC101
FM IF AMP
QUADRATURE DET
1.4
C101 0.022
C102 0.022
1.5
C105 680p
CP101
C106 470p
IFT051 AM IF
(1.3)
L058 47mH
AM RF AMP
AGC
MIX
AM OSC
VOLT REG
GND
(6.8)
(2.3)
C064 0.022
C062 10 50V
C071 10 50V
C068 47p
CF051
AM IF AMP
AM DET
AGC
LED DRIVE
C069 0.056
(1.4)
LED OFF:10.5
LED ON:0.7
0.6
C067 1 50V
C104 0.022
R051 6.8k
C070 0.022
LW FREQUENCY COVERAGE
S101-7 BAND
S101-4 BAND
S101-8 BAND
FM
MW
LW
L054 MW OSC
C056 360p
L055 LW OSC
C058 100p
CT054
C055 15p
CT055
C057 47p
CV052
C072 22 16V
R106 68k
MW FREQUENCY COVERAGE
S101-6 BAND
L051 MW ANT
C051 5p
CT051
MW TRACKING
D091 HZ9B1L
D092 MC931
Q092
Q091
10.5
9.1
9.8
RV091 220
R094 1k
RV093
RV092 220
R095 390
C095 22 16V
C096 0.022
Q092 2SK381-C
Q091 2SC945
VOLT. REG.
FM FREQUENCY COVERAGE
S101-5 BAND
L052 LW ANT
CV051
C052 27p
CT052
LW TRACKING
S101-2 BAND
6.8
S101-3 BAND
S101-1 BAND
MUTING
(ON: MOMENTARILY WHEN S101 IS SWITCHED.)
Q291 2SC945
RIPPLE FILTER
Q291
R291 1.5k
7.5
C292 10 50V
R292 3.9k
IC201 LA3401
MPX
R105 10k
C201 47 16V
IC201
FM/AM SELECT, MUTING
MPX
PLL
LAMP DRIVE
LED OFF:9.1
LED ON:0.6
FM/AM SELECT CONTROL, MUTE ON / OFF
MUTING OUTPUT
GND
C208 1 50V
C207 1 50V
C206 0.022
CF201
C203 3.3 50V
C202 0.1 50V
C204 1 50V
R202 10k
R208 47k
C209 10 50V
R203 22k
R206 1k
R212 4.7k
R211 33K
C205 1 50V
C212 10 50V
S102 ON:5.2 OFF:0 (0)
S102 ON:3.6 OFF:2.9
S102 ON:6.6 OFF:7.2 (9)
R221 560
C232 0.47 50V
R204 10k
D205
D205 1S953
D201 SEL2210S
D204 1S953
R209 68k
C210 680p
C213 0.47 50V
R213 1.5k
L201 10mH
C217 0.0068
C219 0.0068
C215 0.0068
R215 6.8k
R210 68k
C211 680p
C214 0.47 50V
R214 1.5k
L202 10mH
C218 0.0068
C216 0.0068
C220 0.0068
R216 6.8k
10.5
D201 STEREO
[LED BOARD]
ON
OFF


8
9
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14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
【TUNER BOARD】
Q101 2SC2724
FM IF AMP
IC101 LA1260C
FM IF AMP/DET, AM CIRCUIT
IFT101
R103 6.8k
C103 0.022
D251 SLR-40DC3
【TUNING LED BOARD】
R112 560
R119 4.7k
TUNED
IF OUT
CF001
CF101
R101 220k
R102 330
R121 33
CF102
C023 0.022
FM IF AMP
QUADRATURE DET
CP101
C105 680p
C106 470p
C101 0.022
C102 0.022
Q081 2SK105
AM RF AMP
L058 47mH
AM RF AMP
MIX
IFT051 AM IF
C068 47p
AM IF AMP
AM DET
C069 0.056
AGC
VOLT REG
AM OSC
GND
CF051
LED DRIVE
LED OFF:10.5
LED ON:0.7
R081 680
C063 0.47 50V
L057 2.2μH
C065 10p
C066 0.022
C064 0.022
C062 10 50V
C071 10 50V
C067 50V
C104 0.022
C070 0.022
R051 6.8k
C081 470p
C082 0.022
C093 0.022
C098 1 50V
C114
C094 0.022
R001 330
F MAX
(+10V)
10.5
Q
R
(GND)
TO CONTROL BOARD (page 37)
S101-8 BAND
FM
MW
LW
LW FREQUENCY COVERAGE
S101-7 BAND
S101-4 BAND
L054 MW OSC
C056 360p
L055 LW OSC
C058 100p
CV052
C072 22 16V
R106 68k
CT054
C055 15p
CT055
C057 47p
MW FREQUENCY COVERAGE
S101-2 BAND
S101-3 BAND
D104 1S953
D104
R105 10k
IC201 LA3401
MPX
C201 47 16V
IC201
Vcc
C208 1 50V
FM/AM SELECT, MUTING
MPX
C207 1 50V
C206 0.022
PLL
LAMP DRIVE
LED OFF:9.1
LED ON:0.6
FM/AM SELECT CONTROL, MUTE ON / OFF
MUTING OUTPUT
GND
R209 68k
C210 680p
C213 0.47 50V
R213 1.5k
L201 10mH
C217 0.0068
C219 0.0068
C215 0.0068
R215 6.8k
R210 68k
C211 680p
C214 0.47 50V
R214 1.5k
L202 10mH
C218 0.0068
R216 6.8k
C216 0.0068
C220 0.0068
(TUNER L)
L-CH
R-CH
(TUNER R)
O
P
TO CONTROL BOARD (page 37)
Q291 2SC945
RIPPLE FILTER
R291 1.5k
C292 10 50V
R292 3.9k
CF201
C202 0.1 50V
C203 3.3 50V
R202 10k
C204 1 50V
R208 47k
C209 10 50V
R203 22k
R206 1k
R212 4.7k
R211 33K
C205 1 50V
C212 10 50V
S102 ON:5.2 OFF:0 (0)
S102 ON:3.6 OFF:2.9
S102 ON:6.6 OFF:7.2 (9)
R221 560
C232 0.47 50V
R204 10k
D205
D201 STEREO
【LED BOARD】
D204
D202
S102 STEREO/MUTING
ON ST
OFF MONO
C233 0.022
R222 100
S101-1 BAND
MUTING (ON: MOMENTARILY WHEN S101 IS SWITCHED.)
D205 1S953
D201 SEL2210S
D204 1S953
D202 1S953

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▨ : signal path.
- △ : internal component.
- —∿— : fusible resistor.

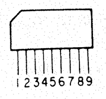
• Switch

Ref. No.	Switch	Position
S101-1 – 8	BAND (-1: MUTING)	FM
S102-1, 2	STEREO/MUTING -1: MODE -2: MUTING	ON

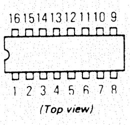
- ▬ : B + bus.
- ━ ━ : B – bus.
- ☐ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (50kΩ/V).
  no mark : FM mode } STEREO/MUTING
  ( ) : MW or LW mode } switch : ON
- Voltage variations may be noted due to normal production tolerances.

- **Semiconductor Lead Layouts**

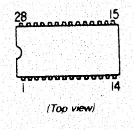
BA338
IR2E31



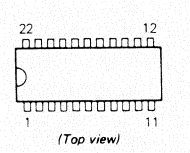
CX174A-2
LA1260C
M5226P


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

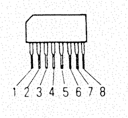
LC7815H


28
15
1
14
(Top view)

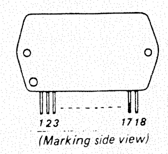
LA3401


22
12
1
11
(Top view)

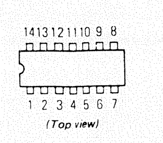
M5218L



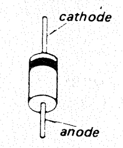
STK4121II


1 2 3
17 18
(Marking side view)

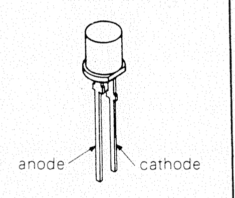
TC4001BP
TC4081BP


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

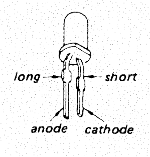
HZ9B1L
HZ11B2L
HZ11C3L
HZ12B2L
HZ12C3L
HZ6A1L


cathode
anode

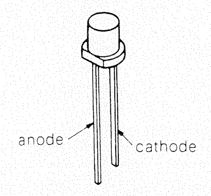
SEL1213C-C


anode
cathode

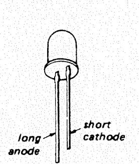
SEL2210S-C
SEL2810A-C


long
short
anode
cathode

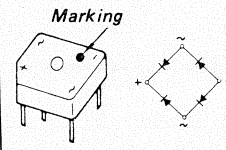
SEL2813A-C


anode
cathode

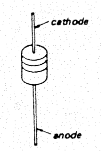
SLR-40DC3


long
anode
short
cathode

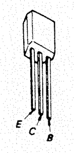
S2VB20



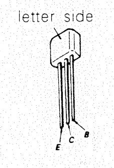
1SS202-1


cathode
anode

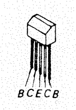
2SC2458
2SC2724
DTC124XS
DTC144WS



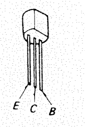
2SA1175


letter side
E C B

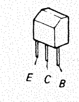
2SC1583



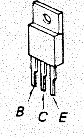
2SC2001



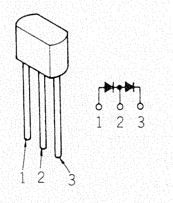
2SD774



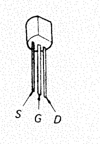
2SD1406



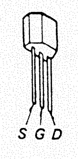
MC931



2SK107-3

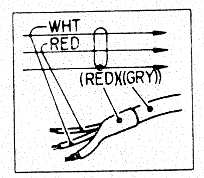


2SK381-D



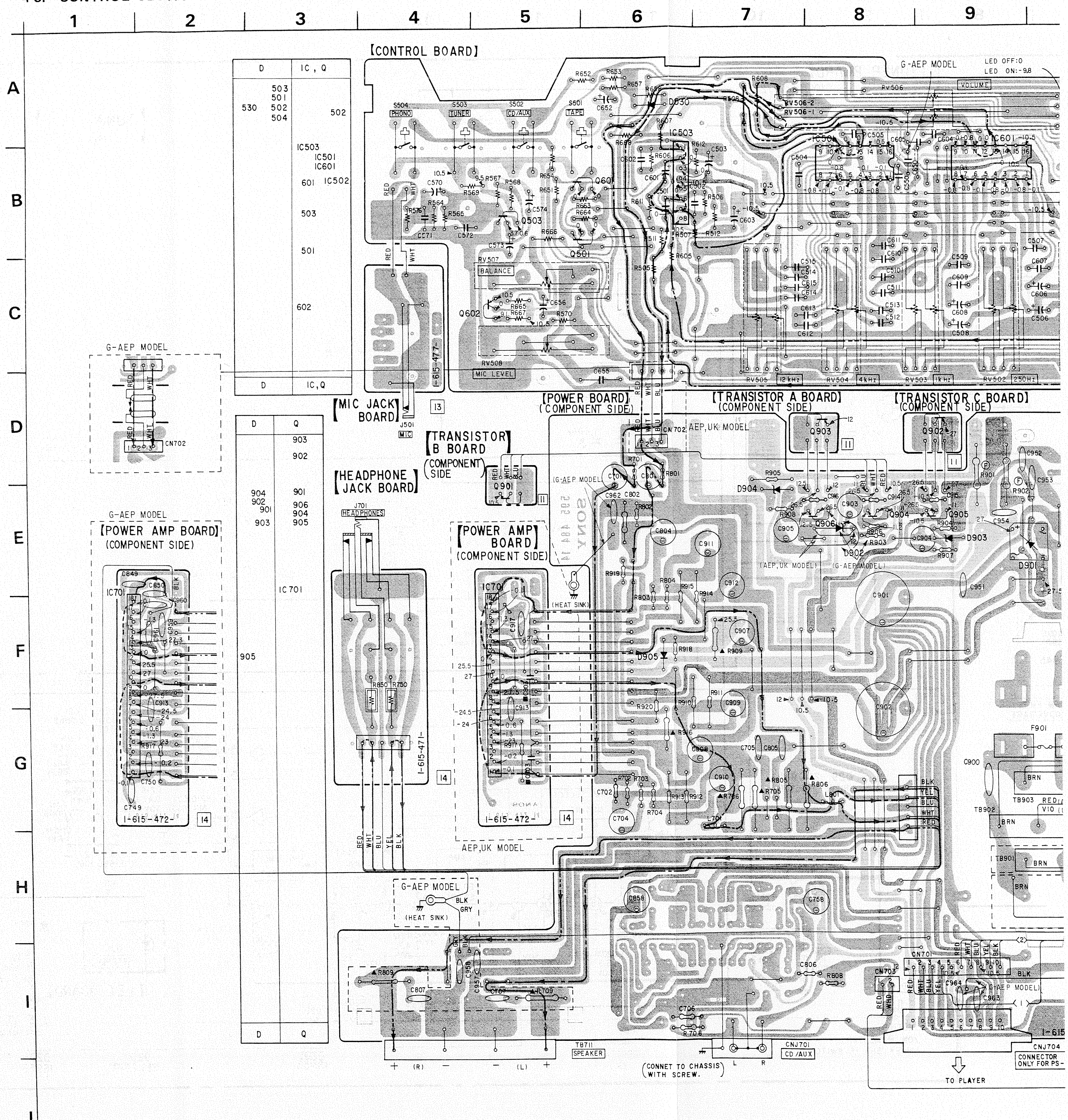
Note:

- Color code of sleeving over the end of the jacket.

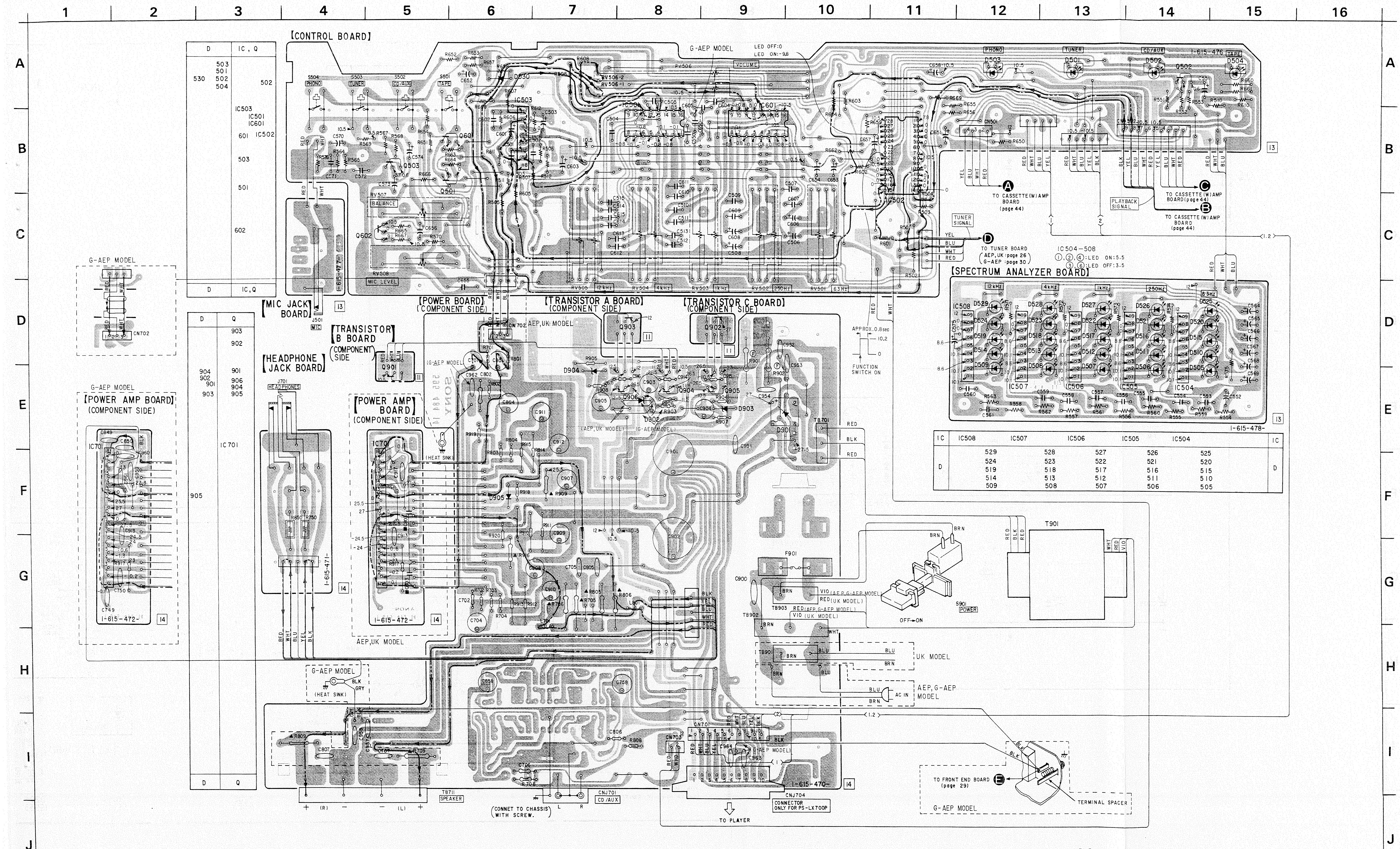

WHT
RED
(RED)(GRY)

- ○—— : parts extracted from the component side.
- •—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⬚←: indicates side identified with part number.
- ▲ : nonflammable resistor.
- Ⓕ : fusible resistor.
- ▬▬➡ : signal path
- ▬▬➡ : L-CH signal path
- ▬▬➡ : R-CH signal path
- ▨ : B + pattern
- ▩ : B − pattern

4-5. CONTROL SECTION MOUNTING DIAGRAM


1 2 3 4 5 6 7 8 9
A B C D E F G H I J
[CONTROL BOARD]
G-AEP MODEL
LED OFF:0
LED ON:-9.8
VOLUME
PHONO
TUNER
CD/AUX
TAPE
BALANCE
MIC LEVEL
12 kHz
4 kHz
1 kHz
250 Hz
[MIC JACK BOARD]
J501 MIC
[POWER BOARD] (COMPONENT SIDE)
[TRANSISTOR A BOARD] (COMPONENT SIDE)
[TRANSISTOR C BOARD] (COMPONENT SIDE)
[TRANSISTOR B BOARD] (COMPONENT SIDE)
[HEADPHONE JACK BOARD]
J701 HEADPHONES
G-AEP MODEL
CN702
[POWER AMP BOARD] (COMPONENT SIDE)
IC701
1-615-472-
1-615-471-
1-615-477-
AEP,UK MODEL
(HEAT SINK)
F901
TB903
TB902
TB901
CN701
CN703
CNJ704
CONNECTOR ONLY FOR PS-
TO PLAYER
TB711 SPEAKER
+ (R) − − (L) +
(CONNET TO CHASSIS WITH SCREW.)
CNJ701 CD/AUX
L R
D | IC, Q
530 | 503 501 502 504 | 502
IC503 IC501 IC601
601 | IC502
503
501
602
D | IC,Q
D | Q
903
902
904 902 901 903 | 901 906 904 905
IC701
905
D | Q

4-5. CONTROL SECTION MOUNTING DIAGRAM



1
2
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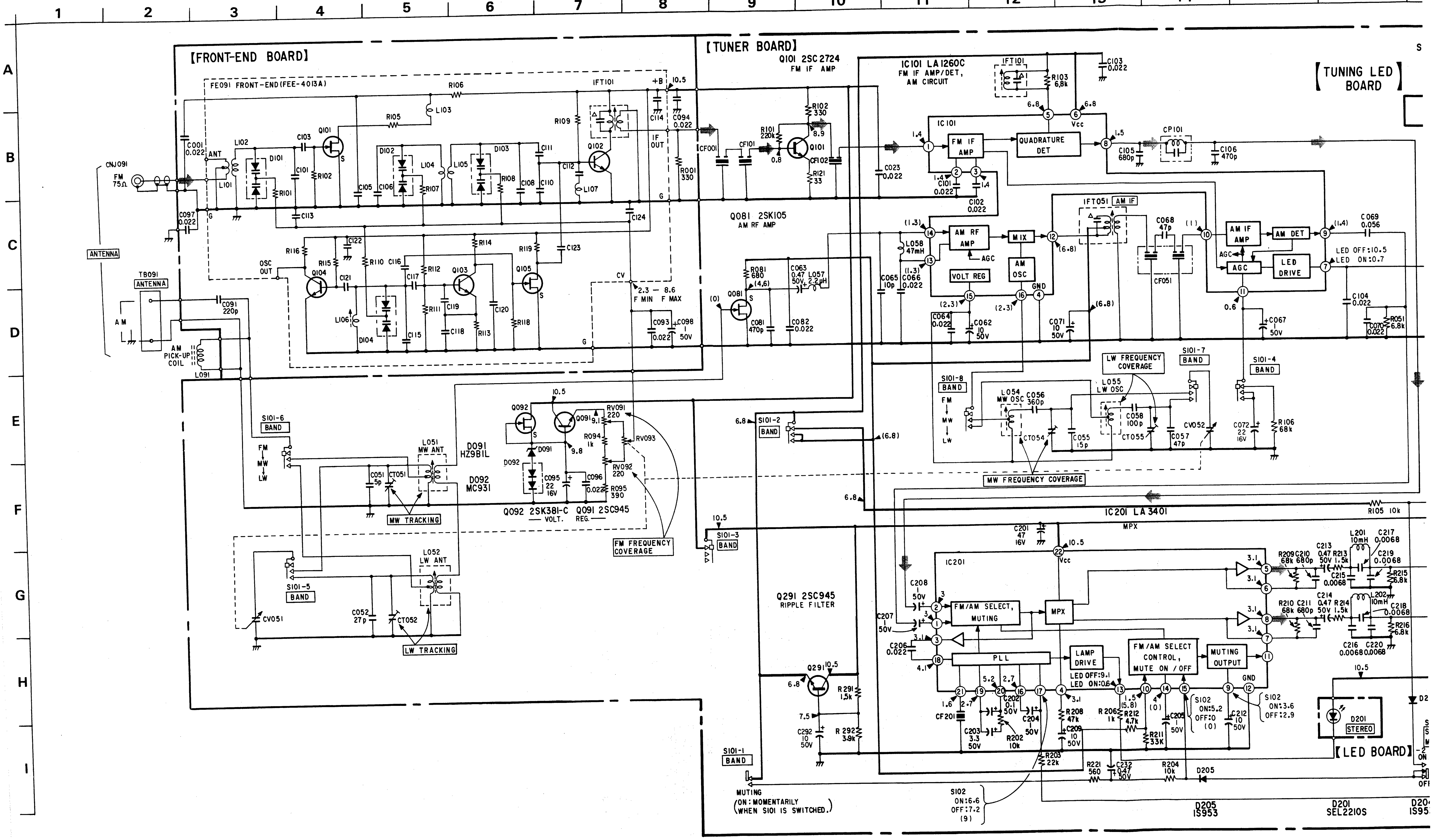
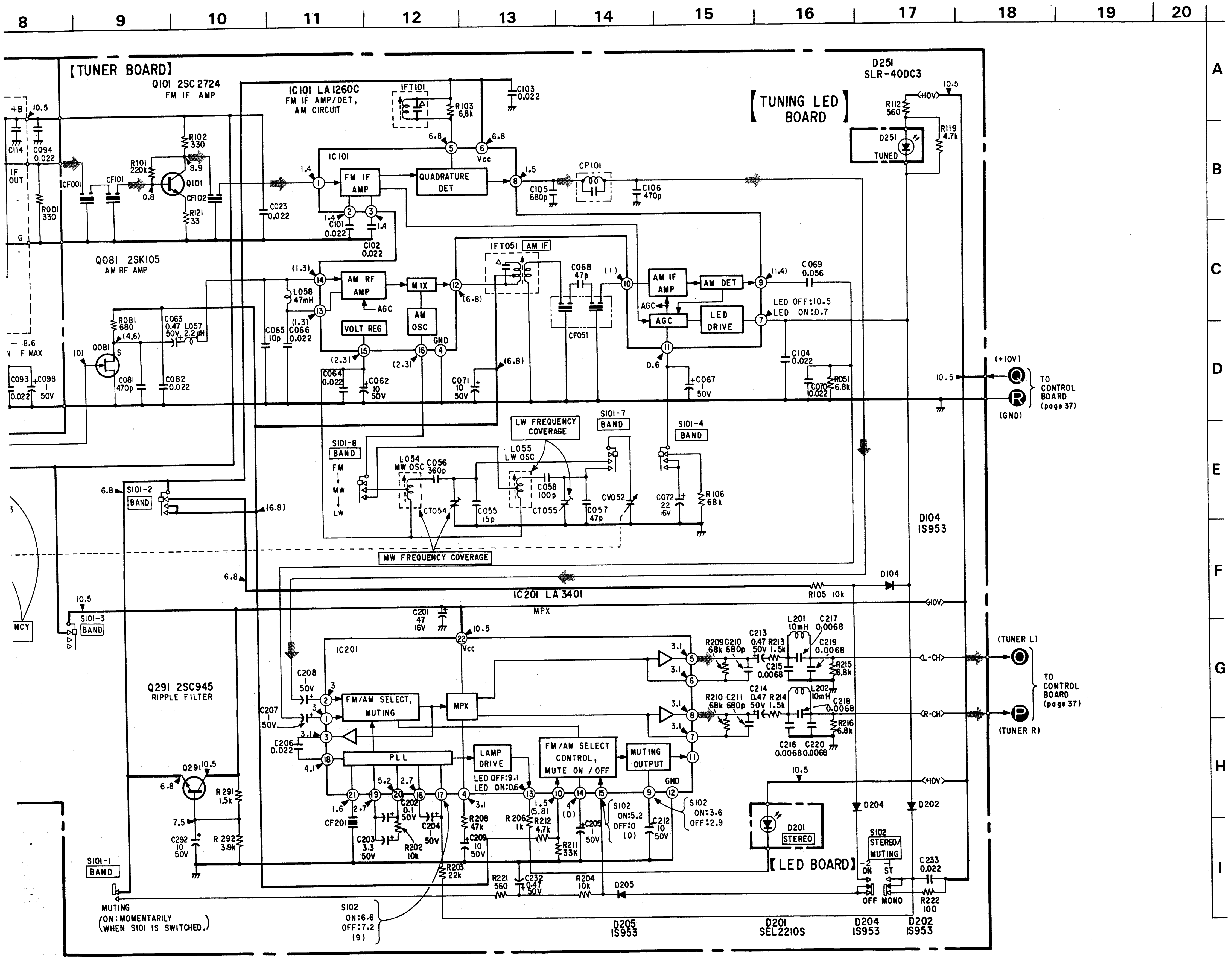
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
【CONTROL BOARD】
G-AEP MODEL
LED OFF:0
LED ON:-9.8
PHONO
TUNER
CD/AUX
TAPE
1-615-476
VOLUME
BALANCE
MIC LEVEL
12kHz
4kHz
1kHz
250Hz
63Hz
TO CASSETTE(W)AMP BOARD (page 44)
TO CASSETTE(W)AMP BOARD(page 44)
PLAYBACK SIGNAL
TUNER SIGNAL
TO TUNER BOARD (AEP,UK:page 26 / G-AEP:page 30)
IC504-508
①,②,④:LED ON:5.5
③,⑥:LED OFF:3.5
【SPECTRUM ANALYZER BOARD】
8.3Hz
1-615-478-
【MIC JACK BOARD】
J501 MIC
【POWER BOARD】 (COMPONENT SIDE)
【TRANSISTOR A BOARD】 (COMPONENT SIDE)
【TRANSISTOR C BOARD】 (COMPONENT SIDE)
【TRANSISTOR B BOARD】 (COMPONENT SIDE)
AEP,UK MODEL
APPROX.0.8sec
FUNCTION SWITCH ON
【HEADPHONE JACK BOARD】
J701 HEADPHONES
【POWER AMP BOARD】 (COMPONENT SIDE)
G-AEP MODEL
【POWER AMP BOARD】 (COMPONENT SIDE)
(HEAT SINK)
1-615-471-
1-615-472-
AEP,UK MODEL
T901
F901
S901 POWER
OFF→ON
VIO(AEP,G-AEP MODEL)
RED(UK MODEL)
RED(AEP,G-AEP MODEL)
VIO(UK MODEL)
TB901
TB902
TB903
UK MODEL
AEP,G-AEP MODEL
AC IN
CN701
CN702
CN703
1-615-470-
TB711 SPEAKER
+ (R) − − (L) +
(CONNET TO CHASSIS WITH SCREW.)
CNJ701 CD/AUX
CNJ704 CONNECTOR ONLY FOR PS-LX700P
TO PLAYER
TO FRONT END BOARD (page 29)
TERMINAL SPACER
G-AEP MODEL
RED
WHT
BLU
YEL
BLK
BRN
GRY
VIO
D | IC, Q
530 | 503 501 502 504 | 502
IC503 IC501 IC601 | 601 IC502
503
501
602
D | Q
903
902
904 902 901 903 | 901 906 904 905
IC701
905
D Q
IC | IC508 | IC507 | IC506 | IC505 | IC504 | IC
D | 529 524 519 514 509 | 528 523 518 513 508 | 527 522 517 512 507 | 526 521 516 511 506 | 525 520 515 510 505 | D

4-4. TUNER SECTION SCHEMATIC DIAGRAM (G-AEP model)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I
[FRONT-END BOARD]
[TUNER BOARD]
[TUNING LED BOARD]
[LED BOARD]
FE091 FRONT-END (FEE-4013A)
CNJ091 FM 75Ω
ANTENNA
TB091 ANTENNA
AM
AM PICK-UP COIL
L091
ANT
OSC OUT
IF OUT
CV
2.3 – 8.6 F MIN F MAX
IFT101
+B
10.5
Q101 2SC2724 FM IF AMP
Q081 2SK105 AM RF AMP
IC101 LA1260C FM IF AMP/DET, AM CIRCUIT
FM IF AMP
QUADRATURE DET
AM RF AMP
MIX
AM OSC
VOLT REG
AM IF AMP
AM DET
AGC
LED DRIVE
IFT051 AM IF
CF051
CP101
LED OFF:10.5 LED ON:0.7
S101-8 BAND FM MW LW
S101-7 BAND
S101-4 BAND
LW FREQUENCY COVERAGE
L054 MW OSC
L055 LW OSC
MW FREQUENCY COVERAGE
S101-6 BAND FM MW LW
L051 MW ANT
MW TRACKING
S101-5 BAND
L052 LW ANT
LW TRACKING
CV051
D091 HZ9B1L
D092 MC931
Q092 2SK381-C — VOLT.
Q091 2SC945 REG. —
RV091 220
RV092 220
RV093
FM FREQUENCY COVERAGE
S101-2 BAND
S101-3 BAND
S101-1 BAND
MUTING (ON: MOMENTARILY WHEN S101 IS SWITCHED.)
Q291 2SC945 RIPPLE FILTER
IC201 LA3401 MPX
FM/AM SELECT, MUTING
MPX
PLL
LAMP DRIVE
LED OFF:9.1 LED ON:0.6
FM/AM SELECT CONTROL, MUTE ON / OFF
MUTING OUTPUT
S102 ON:5.2 OFF:0 (0)
S102 ON:3.6 OFF:2.9
S102 ON:6.6 OFF:7.2 (9)
D201 STEREO
D205 1S953
D201 SEL2210S
R105 10k
L201 10mH
L202 10mH
C201 47 16V

G-AEP Model


8
9
10
11
12
13
14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
【TUNER BOARD】
Q101 2SC2724
FM IF AMP
IC101 LA1260C
FM IF AMP/DET, AM CIRCUIT
IFT101
R103 6.8k
C103 0.022
FM IF AMP
QUADRATURE DET
CP101
C105 680p
C106 470p
CF001
CF101
CF102
R101 220k
R102 330
R121 33
R001 330
C114
C094 0.022
C023 0.022
C101 0.022
C102 0.022
IF OUT
+B
10.5
Q081 2SK105
AM RF AMP
R081 680
C063 0.47 50V
L057 2.2μH
C081 470p
C082 0.022
C093 0.022
C098 1 50V
8.6
F MAX
L058 47mH
AM RF AMP
AGC
MIX
AM OSC
VOLT REG
GND
C065 10p
C066 0.022
C064 0.022
C062 10 50V
C071 10 50V
IFT051 AM IF
C068 47p
CF051
AM IF AMP
AM DET
AGC
LED DRIVE
LED OFF:10.5
LED ON:0.7
C069 0.056
C104 0.022
C070 0.022
R051 6.8k
C067 1 50V
【TUNING LED BOARD】
D251 SLR-40DC3
R112 560
R119 4.7k
D251 TUNED
(+10V)
TO CONTROL BOARD (page 37)
(GND)
S101-8 BAND
FM ↓ MW ↓ LW
L054 MW OSC
C056 360p
L055 LW OSC
LW FREQUENCY COVERAGE
S101-7 BAND
S101-4 BAND
C055 15p
CT054
C058 100p
CT055
C057 47p
CV052
C072 22 16V
R106 68k
MW FREQUENCY COVERAGE
S101-2 BAND
D104 1S953
D104
R105 10k
IC201 LA3401
MPX
C201 47 16V
S101-3 BAND
IC201
Vcc
C208 1 50V
C207 1 50V
C206 0.022
FM/AM SELECT, MUTING
MPX
PLL
LAMP DRIVE
LED OFF:9.1
LED ON:0.6
FM/AM SELECT CONTROL, MUTE ON / OFF
MUTING OUTPUT
GND
Q291 2SC945
RIPPLE FILTER
R291 1.5k
C292 10 50V
R292 3.9k
CF201
C203 3.3 50V
C202 0.1 50V
C204 1 50V
R202 10k
R208 47k
C209 10 50V
R203 22k
R206 1k
R212 4.7k
R211 33k
C205 1 50V
C212 10 50V
S102 ON:5.2 OFF:0 (0)
S102 ON:3.6 OFF:2.9
R209 68k
C210 680p
C213 0.47 50V
R213 1.5k
L201 10mH
C217 0.0068
C219 0.0068
C215 0.0068
R215 6.8k
R210 68k
C211 680p
C214 0.47 50V
R214 1.5k
L202 10mH
C218 0.0068
C216 0.0068
C220 0.0068
R216 6.8k
(TUNER L)
(TUNER R)
TO CONTROL BOARD (page 37)
(L-CH)
(R-CH)
(+10V)
D201 STEREO
【LED BOARD】
D204
D202
S102 STEREO/MUTING
ON ST
OFF MONO
C233 0.022
R222 100
S101-1 BAND
MUTING (ON: MOMENTARILY WHEN S101 IS SWITCHED.)
S102 ON:6.6 OFF:7.2 (9)
R221 560
C232 0.47 50V
R204 10k
D205
D205 1S953
D201 SEL2210S
D204 1S953
D202 1S953

Note:

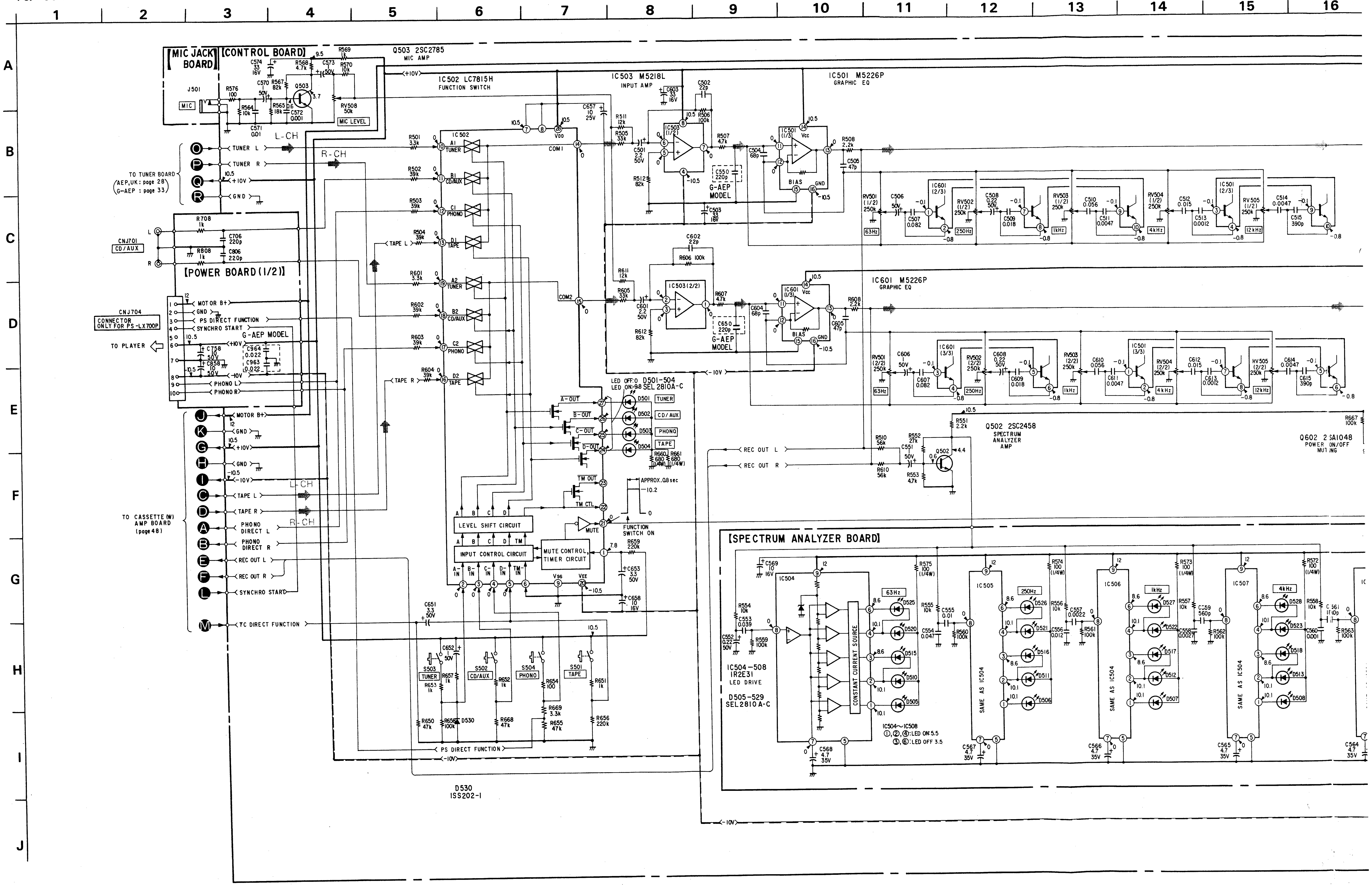
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ➡ : signal path.
- △ : internal component.
- ▭ : fusible resistor.

- **Switch**

Ref. No.	Switch	Position
S101-1 – 8	BAND (-1: MUTING)	FM
S102-1, 2	STEREO/MUTING -1: MODE -2: MUTING	ON

- ▬▬ : B + bus.
- ▬ ▬ : B – bus.
- ☐ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (50kΩ/V).
  no mark: FM mode } STEREO/MUTING
  ( ) : MW or LW mode } switch : ON
- Voltage variations may be noted due to normal production tolerances.

4-6. CONTROL SECTION SCHEMATIC DIAGRAM


1
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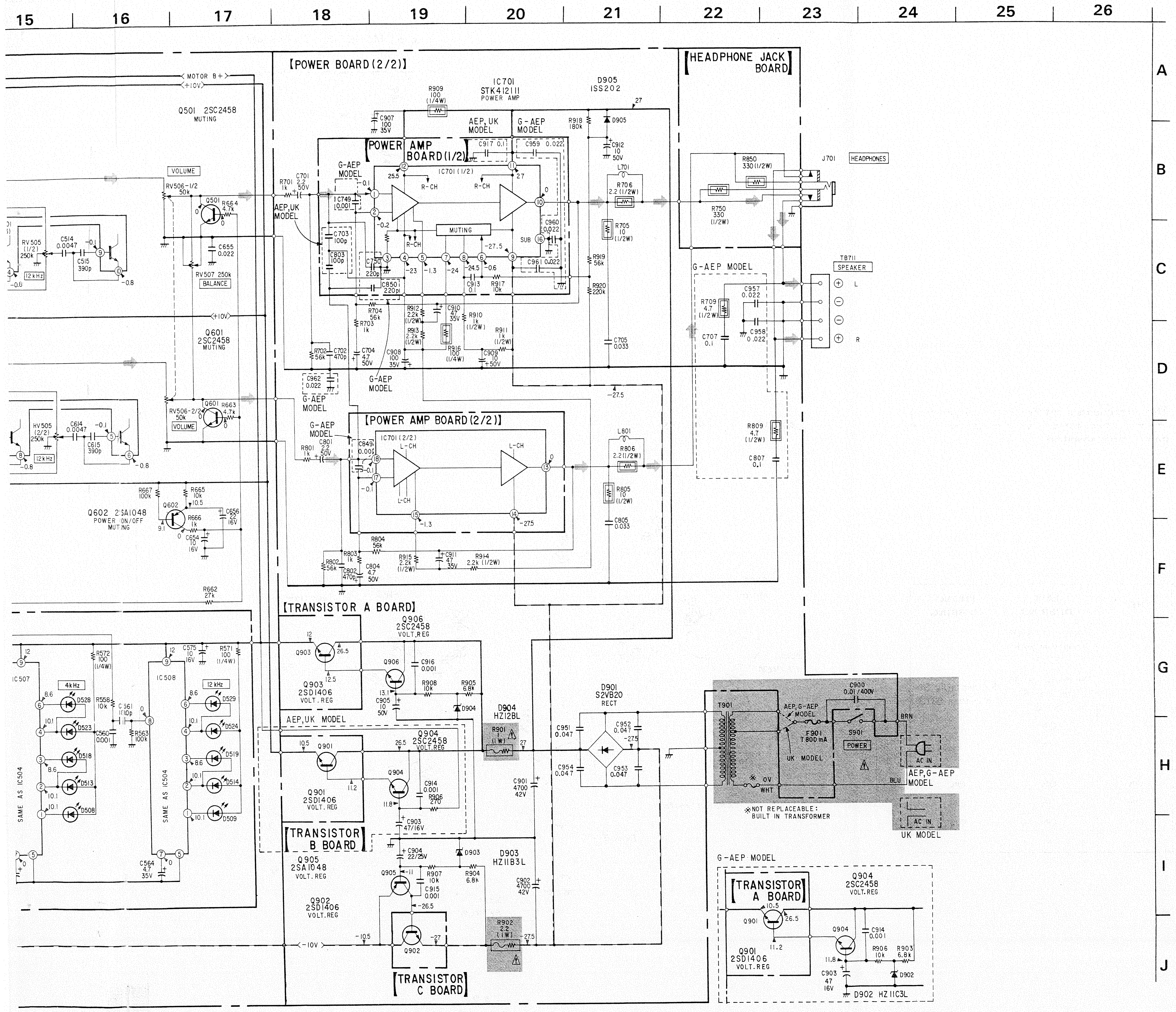
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
[MIC JACK BOARD]
[CONTROL BOARD]
Q503 2SC2785
MIC AMP
J501
MIC
RV508 50k
MIC LEVEL
IC502 LC7815H
FUNCTION SWITCH
IC503 M5218L
INPUT AMP
IC501 M5226P
GRAPHIC EQ
L-CH
R-CH
TUNER L
TUNER R
+10V
GND
TO TUNER BOARD
(AEP,UK: page 28)
(G-AEP : page 33)
CNJ701
CD/AUX
[POWER BOARD(1/2)]
CNJ704
CONNECTOR ONLY FOR PS-LX700P
TO PLAYER
MOTOR B+
PS DIRECT FUNCTION
SYNCHRO START
G-AEP MODEL
PHONO L
PHONO R
COM1
COM2
A1 TUNER
B1 CD/AUX
C1 PHONO
D1 TAPE
A2 TUNER
B2 CD/AUX
C2 PHONO
D2 TAPE
TAPE L
TAPE R
IC503(2/2)
IC601 M5226P
GRAPHIC EQ
BIAS
G-AEP MODEL
63Hz
250Hz
1kHz
4kHz
12kHz
LED OFF:0 D501-504
LED ON:-9.8 SEL 2810A-C
A-OUT
B-OUT
C-OUT
D-OUT
TUNER
CD/AUX
PHONO
TAPE
TM OUT
TM CTL
MUTE
APPROX. 0.8sec
FUNCTION SWITCH ON
LEVEL SHIFT CIRCUIT
INPUT CONTROL CIRCUIT
MUTE CONTROL, TIMER CIRCUIT
REC OUT L
REC OUT R
Q502 2SC2458
SPECTRUM ANALYZER AMP
Q602 2SA1048
POWER ON/OFF MUTING
TO CASSETTE (W) AMP BOARD (page 48)
PHONO DIRECT L
PHONO DIRECT R
SYNCHRO START
TC DIRECT FUNCTION
S503 TUNER
S502 CD/AUX
S504 PHONO
S501 TAPE
PS DIRECT FUNCTION
D530
1SS202-1
[SPECTRUM ANALYZER BOARD]
IC504
IC505
IC506
IC507
CONSTANT CURRENT SOURCE
IC504-508
IR2E31
LED DRIVE
D505-529
SEL2810A-C
IC504~IC508
①,②,④:LED ON:5.5
③,⑥:LED OFF 3.5
SAME AS IC504
-10V


15
16
17
18
19
20
21
22
23
24
25
26
A
B
C
D
E
F
G
H
I
J
[POWER BOARD (2/2)]
[HEADPHONE JACK BOARD]
[POWER AMP BOARD (1/2)]
[POWER AMP BOARD (2/2)]
[TRANSISTOR A BOARD]
[TRANSISTOR B BOARD]
[TRANSISTOR C BOARD]
MOTOR B+
+10V
-10V
Q501 2SC2458 MUTING
Q601 2SC2458 MUTING
Q602 2SA1048 POWER ON/OFF MUTING
VOLUME
BALANCE
RV506-1/2 50k
RV506-2/2 50k
RV507 250k
RV505 (1/2) 250k
HV505 (2/2) 250k
IC701 STK412111 POWER AMP
IC701 (1/2)
IC701 (2/2)
R-CH
L-CH
MUTING
D905 ISS202
AEP, UK MODEL
G-AEP MODEL
J701
HEADPHONES
TB711 SPEAKER
L
R
IC507
IC508
SAME AS IC504
4kHz
12kHz
Q906 2SC2458 VOLT.REG
Q903 2SD1406 VOLT.REG
Q904 2SC2458 VOLT.REG
Q901 2SD1406 VOLT.REG
Q905 2SA1048 VOLT.REG
Q902 2SD1406 VOLT.REG
D904 HZ12BL
D903 HZ11B3L
D901 S2VB20 RECT
D902 HZ11C3L
T901
F901 T800mA
S901
POWER
UK MODEL
AEP, G-AEP MODEL
AC IN
BRN
BLU
WHT
0V
※NOT REPLACEABLE: BUILT IN TRANSFORMER
C900 0.01/400V
R901 (1W)
R902 2.2 (1W)

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ⇨ : signal path.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- **Switch**

Ref. No.	Switch	Position
S501	TAPE	OFF
S502	CD/AUX	OFF
S503	TUNER	OFF
S504	PHONO	OFF
S901	POWER	OFF

- ▬ : B + bus.
- ▬ ▬ : B – bus.
- ☐ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Redings are taken under detuned conditions with a VOM (50kΩ/V).
  no mark : FM mode
- Voltage variations may be noted due to normal production tolerances.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• Note on SCHEMATIC DIAGRAM

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ➡ : signal path.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.

• Switch

Ref. No.	Switch		Position
S1-1-4	REC/PB		PB
S2-1	REC MUTE		OFF
S2-2	DOLBY NR		OFF
S2-3	DUBBING SPEED		NORMAL
S3	TAPE DUBBING		OFF
S4	PHONO DUBBING		OFF
S5	ISS		1
S301	MOTOR	DECK A	OFF
S302	FWD		OFF
S303	FF/REW		OFF
S304	TAPE TYPE (II/IV)		OFF
S311	MOTOR	DECK B	OFF
S312	FWD		OFF
S313	REC		OFF
S314	FF/REW		OFF
S315	TAPE TYPE (II/IV)		OFF
S316	TAPE TYPE (IV)		OFF

• ON/OFF state of leaf switches at each mode

Switch \ mode	STOP	FWD		FF or REW		REC	TAPE DUBBING	PHONO DUBBING
		Deck A	Deck B	Deck A	Deck B			
S3 (TAPE DUBBING)	–	–	–	–	–	–	Momentarily ON together with S313.	–
S4 (PHONO DUBBING)	–	–	–	–	–	–	Momentarily ON later than S3, S313	Momentarily ON later than S313
S301 (motor)	–	ON	–	ON	–	–	ON	–
S302 (FWD)	–	ON	–	–	–	–	ON	–
S303 (FF/REW)	–	–	–	ON	–	–	–	–
S311 (motor)	–	–	ON	–	ON	ON	ON	ON
S312 (FWD)	–	–	ON	–	–	ON	ON	ON
S313 (REC)	–	–	–	–	–	ON	ON	ON
S314 (FF/REW)	–	–	–	–	ON	–	–	–

– mark indicates OFF state.
Tape type switches (S304, 315, 316) are changed by the tape type.

- ▬ : B + bus.
- ▬ ▬ ▬ : B – bus.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unlees otherwise noted.
- Redings are taken under no-signal conditions with a VOM (50kΩ/V).

no mark : STOP mode
●/▶ : RECORD mode
▶ : FORWARD mode
▶▶ : FAST-FORWARD mode
◀◀ : REWIND mode
I : type I cassette
II : type II cassette
IV : type IV cassette
< > : normal speed
≪ ≫ : high speed
( ) : TAPE DUBBING mode
(( )) : PHONO DUBBING mode
〔 〕 : when deck A motor is rotating
〘 〙 : when deck B motor is rotating

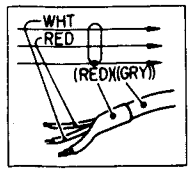
- Voltage variations may be noted due to normal production tolerances.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• Note on MOUNTING DIAGRAM

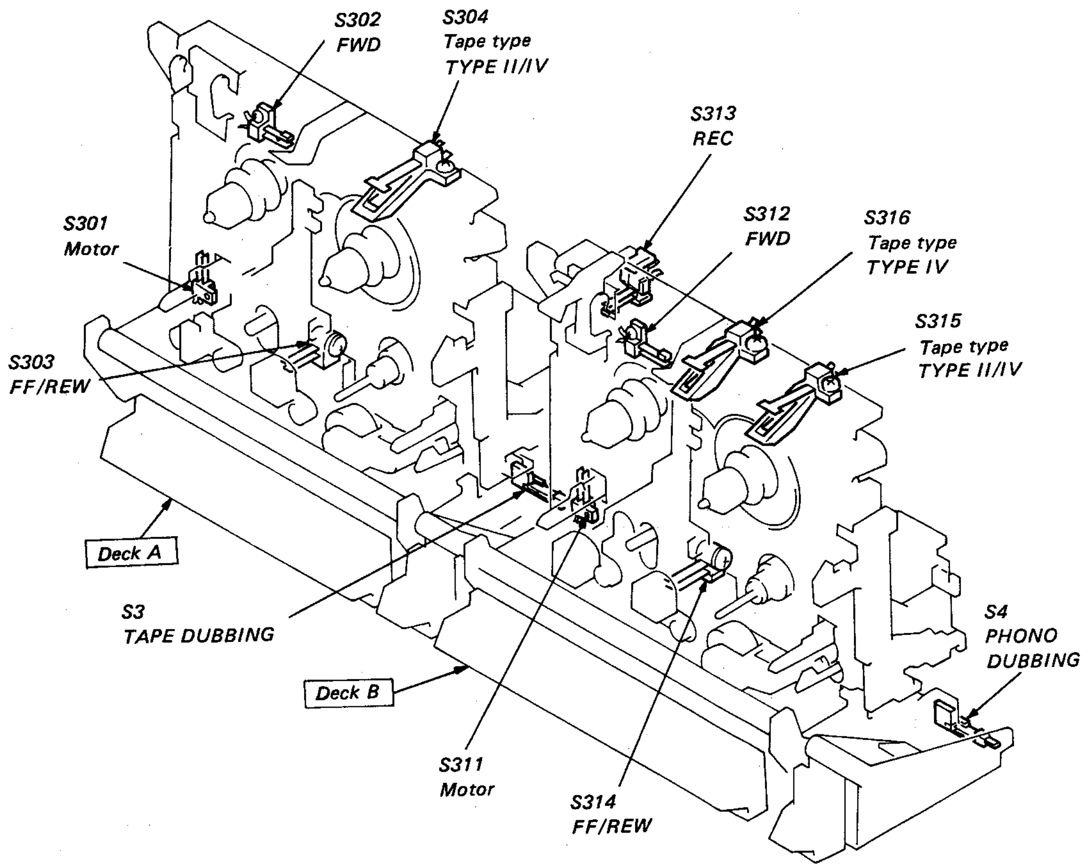
Note:

- Color code of sleeving over the end of the jacket.



- o—— : parts extracted from the component side.
- •—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⬚← : indicates side identified with part number.
- ➡ : signal path
- ➡ : L-CH signal path
- ➡ : R-CH signal path
- ▨ : B + pattern
- ▩ : B – pattern

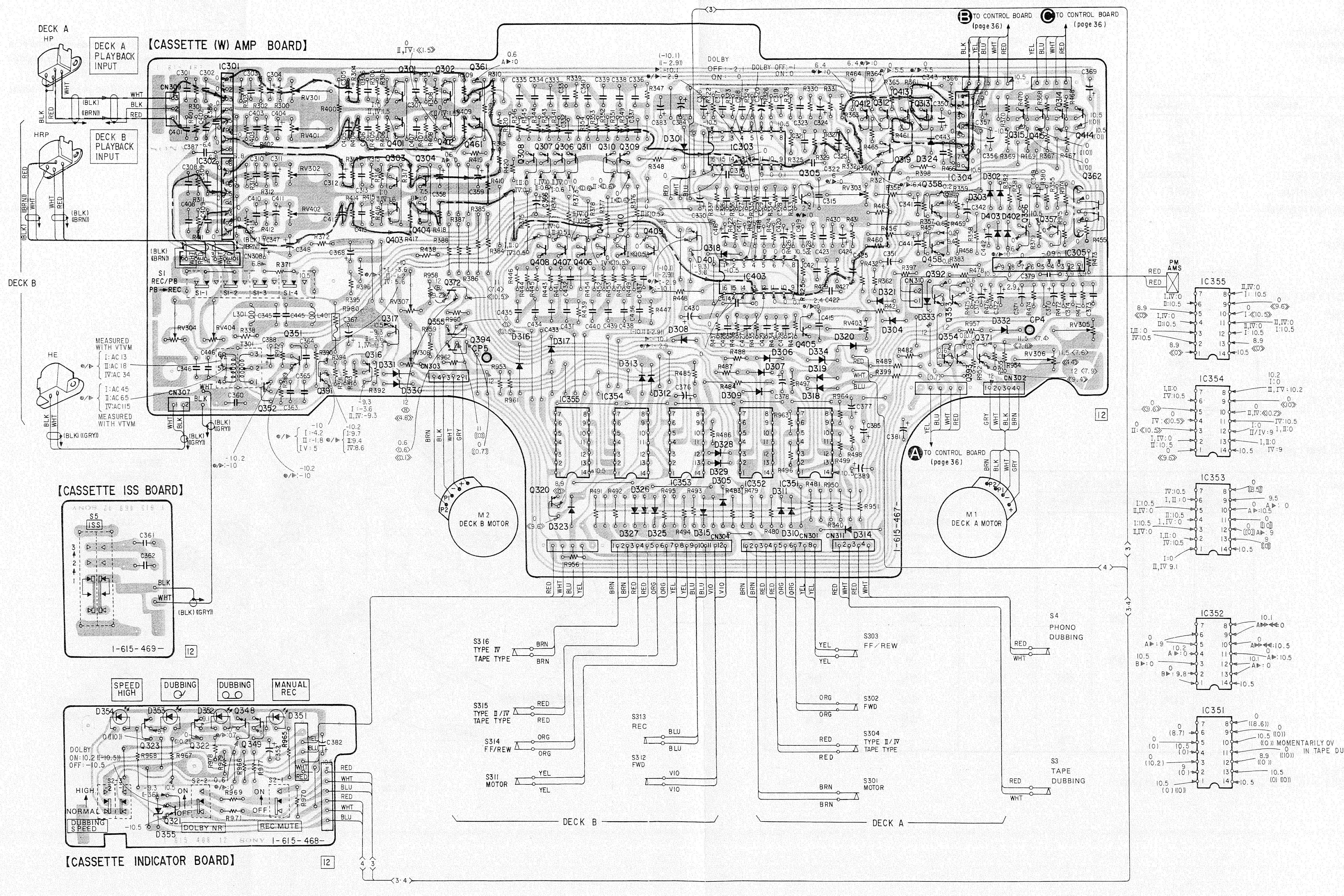
LEAF SWITCH LAYOUTS



4-7. CASSETTE DECK SECTION MOUNTING DIAGRAM

– Conductor Side – Refer to page 34 for semiconductor lead layouts.

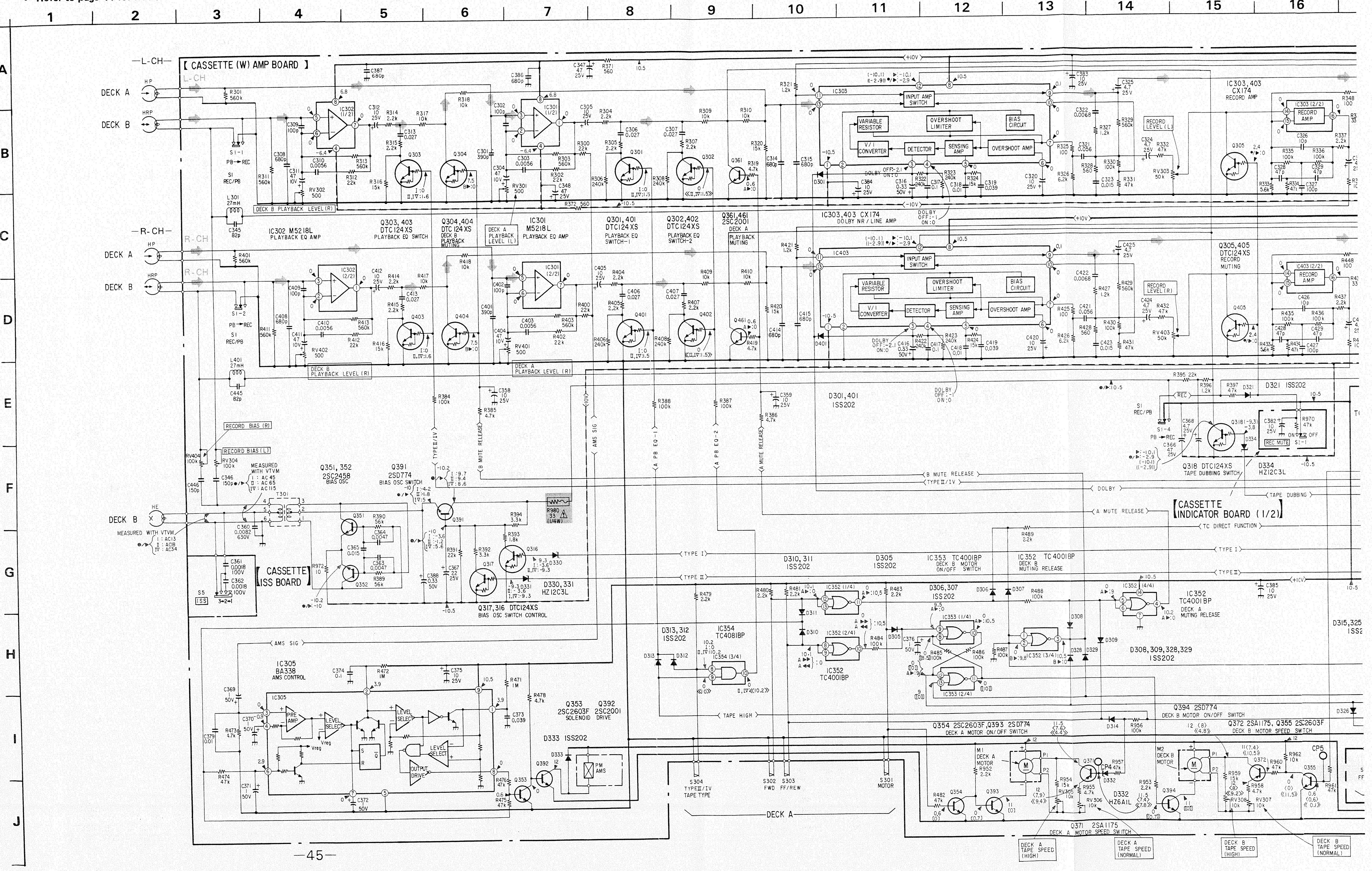
	3	4	5	6	7	8	9	10	11	12
D			331,330		316,317 323	301 313,312,308,328,329 327,326,325 315 305	401 309,306,307,334,319 311 310 318	320 321 314	324 304 333 303,403,302,402 332	
Q IC		IC301 IC302	301 352,351,391	401 302,402 361 461 303,403,304,404 317 372 355 316 394	308 307 306,311 310 408,407,406,411,410,409 IC355 320	309 318 IC354 IC353	IC303 305 IC403 IC352	405 IC351 412,312,413,313 319	358 458 392 353 354 393 371 IC304	315,415,314,414 356,357 362 IC305

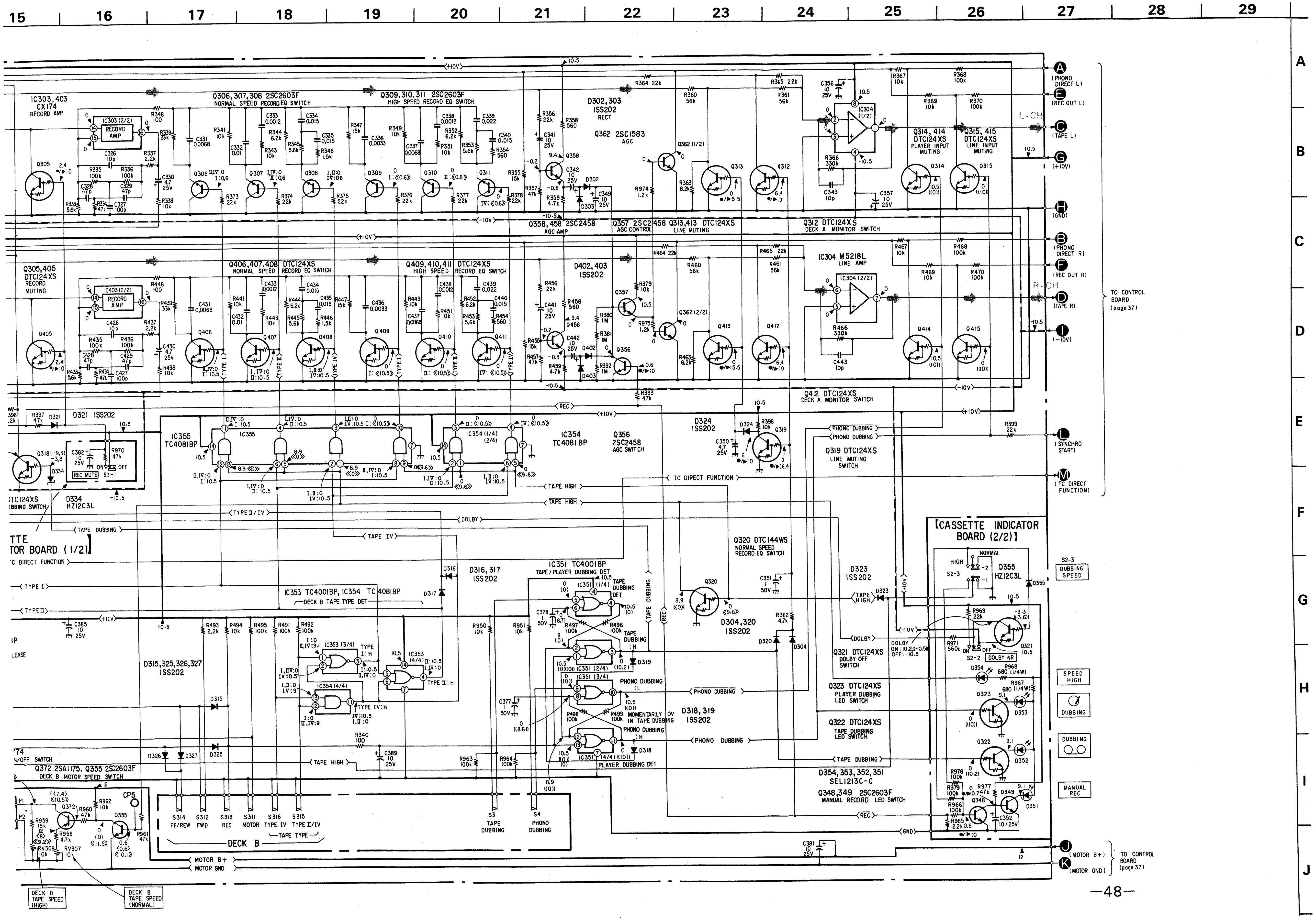


DECK A
HP
DECK A PLAYBACK INPUT
DECK B PLAYBACK INPUT
HRP
DECK B
[CASSETTE (W) AMP BOARD]
B TO CONTROL BOARD (page 36)
C TO CONTROL BOARD (page 36)
A TO CONTROL BOARD (page 36)
DOLBY OFF ON
S1 REC/PB PB→REC
HE
MEASURED WITH VTVM
I:AC 13
II:AC 18
IV:AC 34
I:AC 45
II:AC 65
IV:AC 115
MEASURED WITH VTVM
M2 DECK B MOTOR
M1 DECK A MOTOR
PM AMS
1-615-467-
[CASSETTE ISS BOARD]
S5 ISS
1-615-469-
SPEED HIGH
DUBBING
DUBBING
MANUAL REC
[CASSETTE INDICATOR BOARD]
DOLBY ON:10.2 OFF:-10.5
HIGH NORMAL
DUBBING SPEED
DOLBY NR
REC MUTE
1-615-468-
S316 TYPE IV TAPE TYPE
S315 TYPE II/IV TAPE TYPE
S314 FF/REW
S311 MOTOR
S313 REC
S312 FWD
S303 FF/REW
S302 FWD
S304 TYPE II/IV TAPE TYPE
S301 MOTOR
S4 PHONO DUBBING
S3 TAPE DUBBING
DECK B
DECK A
IC355
IC354
IC353
IC352
IC351
MOMENTARILY 0V IN TAPE DUBBING
RED
WHT
BLK
BLU
YEL
BRN
ORG
GRY
VIO

4-8. CASSETTE DECK SECTION SCHEMATIC DIAGRAM

- Refer to page 41 for note.


[CASSETTE (W) AMP BOARD]
L-CH
R-CH
DECK A
DECK B
HP
HRP
HE
IC302 M5218L PLAYBACK EQ AMP
IC301 M5218L PLAYBACK EQ AMP
Q303, 403 DTC124XS PLAYBACK EQ SWITCH
Q304,404 DTC 124 XS DECK B PLAYBACK MUTING
Q301, 401 DTC124XS PLAYBACK EQ SWITCH-1
Q302,402 DTC124XS PLAYBACK EQ SWITCH-2
Q361,461 2SC2001 DECK A PLAYBACK MUTING
IC303,403 CX174 DOLBY NR / LINE AMP
IC303, 403 CX174 RECORD AMP
INPUT AMP SWITCH
VARIABLE RESISTOR
OVERSHOOT LIMITER
BIAS CIRCUIT
V/I CONVERTER
DETECTOR
SENSING AMP
OVERSHOOT AMP
RECORD AMP
RECORD LEVEL (L)
RECORD LEVEL (R)
Q305,405 DTC124XS RECORD MUTING
DECK B PLAYBACK LEVEL (R)
DECK A PLAYBACK LEVEL (L)
DECK A PLAYBACK LEVEL (R)
RECORD BIAS (R)
RECORD BIAS (L)
MEASURED WITH VTVM
Q351, 352 2SC2458 BIAS OSC
Q391 2SD774 BIAS OSC SWITCH
Q317,316 DTC124XS BIAS OSC SWITCH CONTROL
D330, 331 HZ12C3L
[CASSETTE ISS BOARD]
D301,401 1SS202
D321 1SS202
Q318 DTC124XS TAPE DUBBING SWITCH
D334 HZ12C3L
[CASSETTE INDICATOR BOARD (1/2)]
B MUTE RELEASE
TYPE II / IV
DOLBY
TAPE DUBBING
A MUTE RELEASE
TC DIRECT FUNCTION
TYPE I
TYPE II
AMS SIG
A PB EQ-1
A PB EQ-2
D310, 311 1SS202
D305 1SS202
IC353 TC4001BP DECK B MOTOR ON/OFF SWITCH
IC352 TC4001BP DECK B MUTING RELEASE
IC352 TC4001BP DECK A MUTING RELEASE
D306,307 1SS202
D313, 312 1SS202
IC354 TC4081BP
D308,309,328,329 1SS202
D315,325 1SS2
IC305 BA338 AMS CONTROL
PRE AMP
LEVEL SELECT
OUTPUT DRIVE
Q353 2SC2603F SOLENOID
Q392 2SC2001 DRIVE
D333 1SS202
PM AMS
TAPE HIGH
Q394 2SD774 DECK B MOTOR ON/OFF SWITCH
Q354 2SC2603F,Q393 2SD774 DECK A MOTOR ON/OFF SWITCH
Q372 2SA1175, Q355 2SC2603F DECK B MOTOR SPEED SWITCH
Q371 2SA1175 DECK A MOTOR SPEED SWITCH
D332 HZ6A1L
S304 TYPE II / IV TAPE TYPE
S302 FWD
S303 FF/REW
S301 MOTOR
DECK A
M1 DECK A MOTOR
M2 DECK B MOTOR
DECK A TAPE SPEED (HIGH)
DECK A TAPE SPEED (NORMAL)
DECK B TAPE SPEED (HIGH)
DECK B TAPE SPEED (NORMAL)
CP4
CP5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23
24
25
26
27
28
29
A
B
C
D
E
F
G
H
I
J
IC303,403 CX174 RECORD AMP
IC303 (2/2) RECORD AMP
Q305
Q306,307,308 2SC2603F NORMAL SPEED RECORD EQ SWITCH
Q309,310,311 2SC2603F HIGH SPEED RECORD EQ SWITCH
D302,303 1SS202 RECT
Q362 2SC1583 AGC
Q358,458 2SC2458 AGC AMP
Q357 2SC2458 AGC CONTROL
Q313,413 DTC124XS LINE MUTING
Q312 DTC124XS DECK A MONITOR SWITCH
IC304 (1/2)
Q314,414 DTC124XS PLAYER INPUT MUTING
Q315,415 DTC124XS LINE INPUT MUTING
L-CH
R-CH
(PHONO DIRECT L)
(REC OUT L)
(TAPE L)
(+10V)
(GND)
(PHONO DIRECT R)
(REC OUT R)
(TAPE R)
(−10V)
(SYNCHRO START)
(TC DIRECT FUNCTION)
TO CONTROL BOARD (page 37)
Q305,405 DTC124XS RECORD MUTING
IC403 (2/2) RECORD AMP
Q406,407,408 DTC124XS NORMAL SPEED RECORD EQ SWITCH
Q409,410,411 DTC124XS HIGH SPEED RECORD EQ SWITCH
D402,403 1SS202
IC304 M5218L LINE AMP
IC304 (2/2)
Q412 DTC124XS DECK A MONITOR SWITCH
D321 1SS202
IC355 TC4081BP
IC354 TC4081BP
IC354 (1/4)
Q356 2SC2458 AGC SWITCH
D324 1SS202
Q319 DTC124XS LINE MUTING SWITCH
PHONO DUBBING
TC DIRECT FUNCTION
TAPE HIGH
REC MUTE
S2-1
DTC124XS DUBBING SWITCH
D334 HZ12C3L
TYPE II/IV
DOLBY
TAPE DUBBING
TAPE IV
TTE TOR BOARD (1/2)
C DIRECT FUNCTION
TYPE I
TYPE II
D316,317 1SS202
IC351 TC4001BP TAPE/PLAYER DUBBING DET
IC353 TC4001BP, IC354 TC4081BP DECK B TAPE TYPE DET
IC353 (3/4)
IC353 (4/4)
IC354 (4/4)
IC351 (1/4)
IC351 (2/4)
IC351 (3/4)
IC351 (4/4)
TAPE DUBBING DET
PHONO DUBBING DET
PLAYER DUBBING DET
MOMENTARILY 0V IN TAPE DUBBING
Q320 DTC144WS NORMAL SPEED RECORD EQ SWITCH
D304,320 1SS202
D318,319 1SS202
D315,325,326,327 1SS202
D323 1SS202
Q321 DTC124XS DOLBY OFF SWITCH
Q323 DTC124XS PLAYER DUBBING LED SWITCH
Q322 DTC124XS TAPE DUBBING LED SWITCH
D354,353,352,351 SEL1213C-C
Q348,349 2SC2603F MANUAL RECORD LED SWITCH
[CASSETTE INDICATOR BOARD (2/2)]
D355 HZ12C3L
HIGH NORMAL
S2-3 DUBBING SPEED
S2-2 DOLBY NR
DOLBY ON: 10.2 OFF: −10.5
SPEED HIGH
DUBBING
MANUAL REC
Q372 2SA1175, Q355 2SC2603F DECK B MOTOR SPEED SWITCH
CP5
RV308 10k
RV307 10k
DECK B TAPE SPEED (HIGH)
DECK B TAPE SPEED (NORMAL)
S314 FF/REW
S312 FWD
S313 REC
S311 MOTOR
S316 TYPE IV
S315 TYPE II/IV
TAPE TYPE
DECK B
S3 TAPE DUBBING
S4 PHONO DUBBING
MOTOR B+
MOTOR GND
(MOTOR B+)
(MOTOR GND)
TO CONTROL BOARD (page 37)
ON/OFF SWITCH
LEASE

]

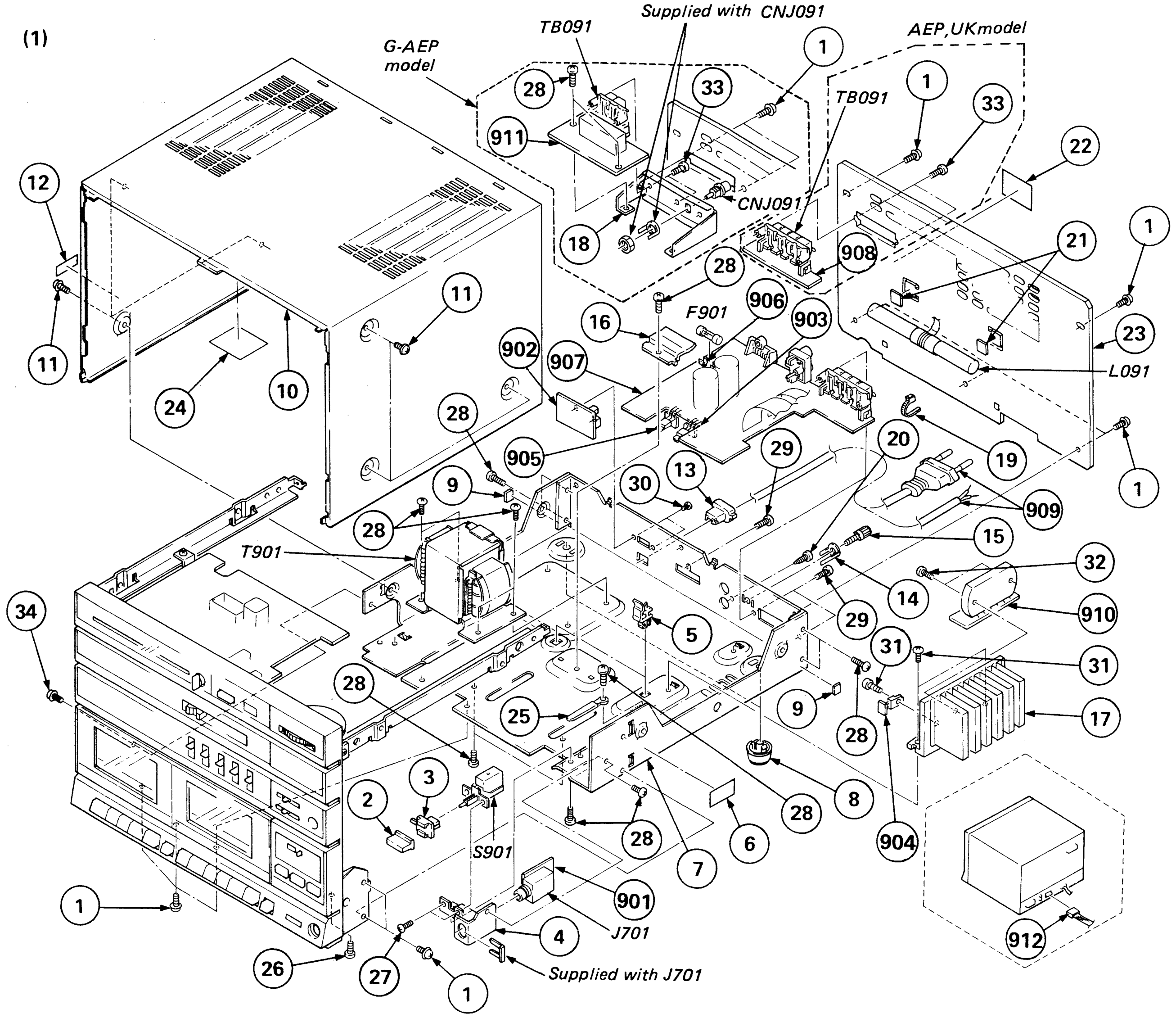
SECTION 5

EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

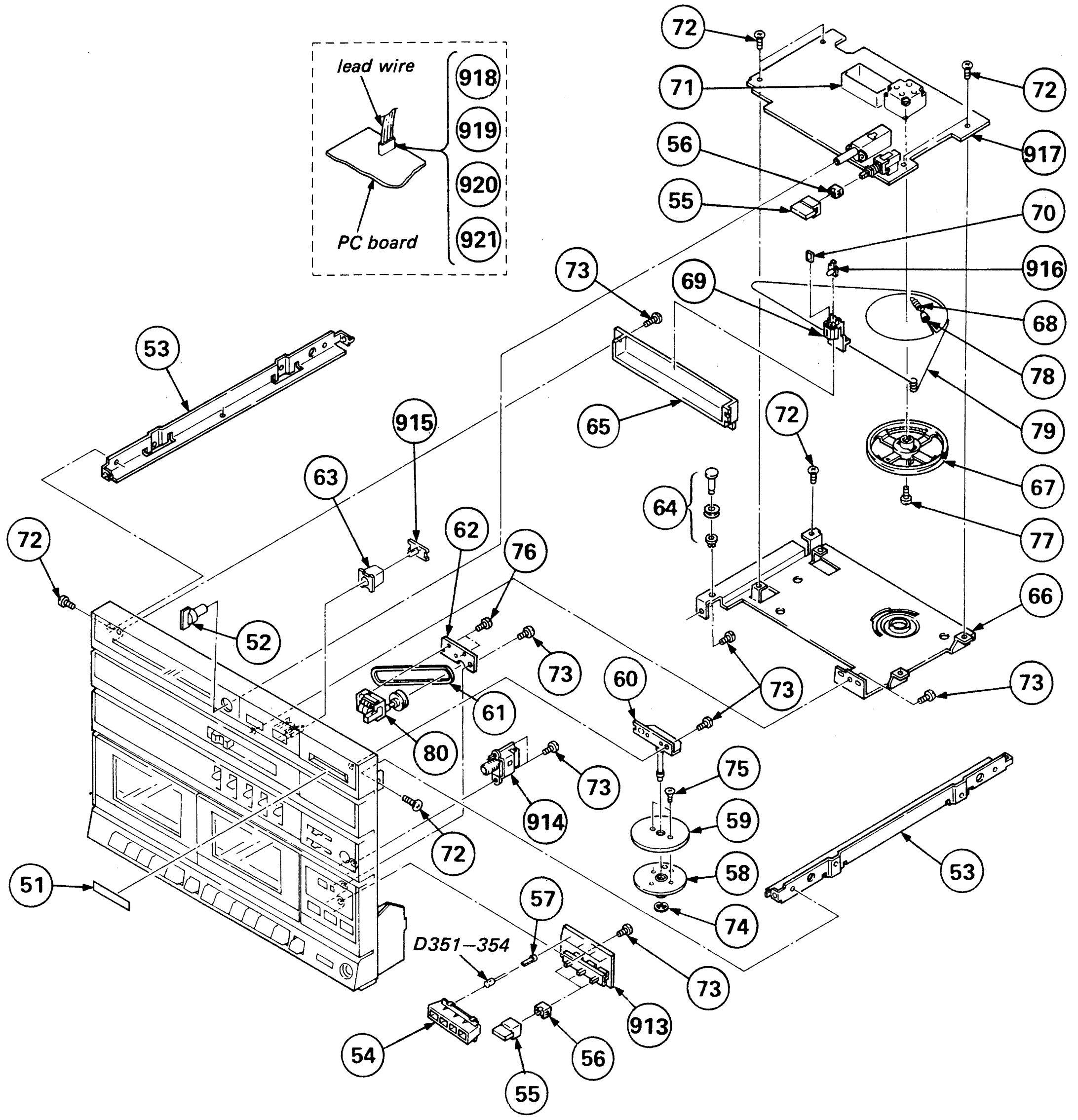
(1)



No.	Part No.	Description	Remarks
1	3-703-107-01	SCREW, +PTTWH 3X8	
2	4-902-830-21	KNOB (POWER-S), T TYPE	
3	*4-902-831-01	JOINT (G), KNOB	
4	*4-909-966-01	BRACKET, HP	
5	*3-703-141-00	HOLDER, PCB	
6	*3-701-030-00	LABEL, SERIAL NUMBER	
7	*4-909-938-01	(AEP,UK)...CHASSIS	
	*4-909-938-41	(G-AEP)....CHASSIS	
8	X-4864-303-0	FOOT ASSY	
9	3-312-987-01	(AEP,G-AEP)...CUSHION	
10	4-909-937-01	CASE	
11	4-886-821-01	SCREW, M3 CASE	
12	3-703-079-21	(UK)....LABEL, SUB CAUTION (BLACK)	
13	3-703-244-00	BUSHING (2104), CORD	
14	3-701-993-00	(G-AEP)...SPACER, TERMINAL	
15	3-706-165-01	(G-AEP)....SCREW	
16	*4-909-915-01	BRACKET, TR	
17	*4-902-965-01	HEAT SINK	
18	*4-909-902-01	(G-AEP)...BRACKET, ANTENNA	
19	3-701-748-00	CLAMP	
20	4-909-982-11	SCREW, TAPPING	
21	*4-910-502-01	CUSHION, ANTENNA	
22	*4-909-980-01	(AEP).....LABEL, MODEL NUMBER (AEP)	
	*4-909-979-01	(UK)......LABEL, MODEL NUMBER (UK)	
	*4-910-514-01	(G-AEP)...LABEL, MODEL NUMBER (AE4)	
23	4-909-972-51	(G-AEP)...BOARD, JACK	
	4-909-972-71	(UK)......BOARD, JACK	
	4-909-972-21	(AEP).....BOARD, JACK	

No.	Part No.	Description	Remarks
24	*4-910-504-01	LABEL, SERVICE	
25	3-701-822-00	HOLDER, WIRE	
26	7-685-874-01	SCREW +BVTT 3X12 (S)	
27	7-682-547-04	SCREW +P 3X6	
28	7-685-871-01	SCREW +BVTT 3X6 (S)	
29	7-685-646-71	SCREW +BVTP 3X8 TYPE2 N-S	
30	7-621-773-86	SCREW +P 2.6X4	
31	7-685-752-04	SCREW +BVTT 3X8 (S)	
32	7-685-650-11	SCREW +BVTP 3X16 TYPE2 N-S	
33	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
34	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6	
901	*1-615-471-11	PC BOARD, HEADPHONE JACK	
902	*1-615-469-11	PC BOARD, CASSETTE ISS	
903	*1-616-116-11	PC BOARD, TRANSISTOR A	
904	*1-616-117-11	PC BOARD, TRANSISTOR B	
905	*1-616-118-11	PC BOARD, TRANSISTOR C	
906	1-533-162-00	HOLDER, FUSE	
907	*A-4388-436-A	(AEP).....MOUNTED PCB, POWER	
	*A-4388-437-A	(G-AEP)...MONUTED PCB, POWER	
	*A-4388-438-A	(UK)......MONUTED PCB, POWER	
908	*1-615-473-11	(AEP,UK)...PC BOARD, ANTENNA TERMINAL	
909	⚠1-534-817-XX	(AEP,G-AEP)...CORD, POWER, EULO PLUG	
	⚠1-555-001-00	(UK)..........CORD, POWER	
910	*1-615-472-11	PC BOARD, POWER AMP	
911	*1-615-474-14	(G-AEP)...PC BOARD, FRONT-END	
912	1-557-841-11	CORD (WITH CONNECTOR)	

(2)


lead wire
PC board
918
919
920
921
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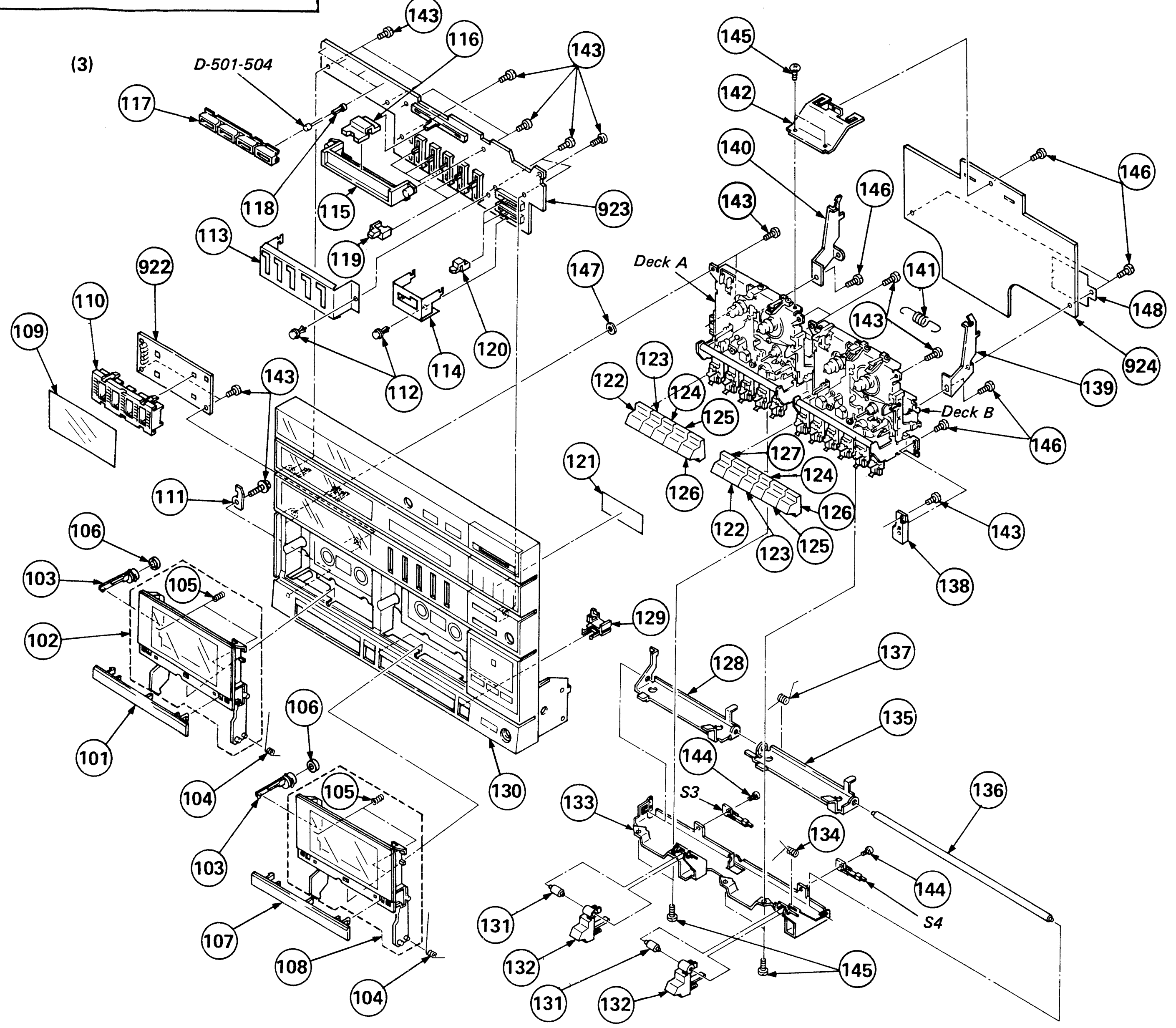
D351–354
914
913
54
51

No.	Part No.	Description	Remarks
51	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)	
52	4-888-210-11	KNOB, BAND SELECT	
53	*4-909-929-01	BRACKET, PJ	
54	*4-909-920-01	HOUSE (C), LED	
55	4-881-704-91	KNOB, SQUARE (5X16)	
56	4-864-307-00	RING	
57	*3-317-118-00	HOLDER (A), LED	
58	X-4909-902-1	TNA ASSY	
59	4-902-919-31	KNOB, TG	
60	*X-4909-901-1	REINFORCEMENT ASSY	
61	3-541-170-00	BELT, COUNTER	
62	*4-909-904-01	BRACKET, COUNTER	
63	*4-909-919-01	HOUSE (B), LED	
64	X-4856-325-0	PULLEY ASSY	
65	*4-909-933-01	RAIL, POINTER	
66	*4-909-973-01	HOLDER, DRUM	
67	*4-909-934-01	DRUM, DIAL	
68	4-902-929-01	SPRING, EXTENSION	
69	*4-909-935-01	POINTER	
70	*4-889-622-01	INDICATOR	

No.	Part No.	Description	Remarks
71	*4-880-329-00	(AEP,UK)...PLATE (E), SHIELD	
72	7-685-871-01	SCREW +BVTT 3X6 (S)	
73	7-685-646-71	SCREW +BVTP 3X8 TYPE2 N-S	
74	7-624-106-04	STOP RING 3.0, TYPE -E	
75	7-685-232-19	SCREW +KTP 2.6X5 TYPE2 SLIT	
76	7-685-131-11	SCREW +P 2.6X4 TYPE2 NON-SLIT	
77	7-621-773-95	SCREW +B 2.6X6	
78	7-623-616-01	EYELET, 2X3	
79	9-911-825-42	STRING, 0.5MM WHITE	
80	1-548-563-61	COUNTER, TAPE	
913	*1-615-468-11	PC BOARD, CASSETTE INDICATOR	
914	*1-615-477-11	PC BOARD, MIC JACK	
915	*1-615-466-13	PC BOARD, LED	
916	*1-615-464-11	PC BOARD, TUNING LED	
917	*A-4351-424-A	(AEP,UK)...MOUNTED PCB, TUNER	
	*A-4351-425-A	(G-AEP)....MOUNTED PCB, TUNER	
918	*1-562-249-00	SOCKET, CONNECTOR 4P	
919	*1-562-250-00	SOCKET, CONNECTOR 5P	
920	*1-562-251-00	SOCKET, CONNECTOR 6P	
921	*1-562-327-00	SOCKET, CONNECTOR 3P	

(3)


D-501-504
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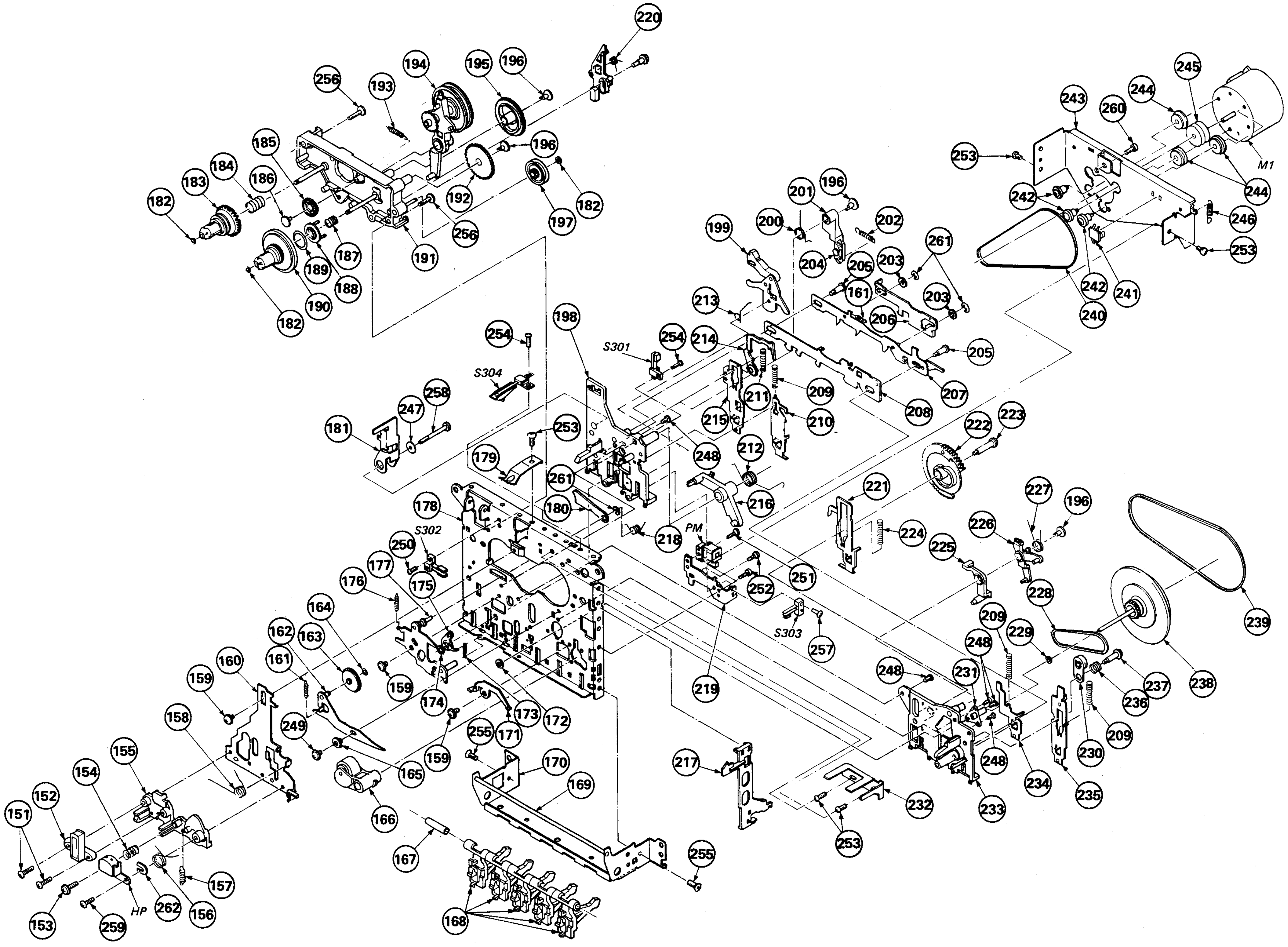
103
105
102
101
104
107
108
130
121
129
145
142
140
146
147
141
148
924
139
Deck A
Deck B
122
123
124
125
126
127
138
128
137
135
136
133
134
144
S3
S4
131
132

No.	Part No.	Description	Remarks
101	4-909-925-11	COVER, HOLDER	
102	X-4909-914-1	HOLDER ASSY (A), CASSETTE	105
103	3-312-458-01	PISTON (A)	
104	4-909-958-01	SPRING	
105	3-610-808-00	SPRING (1)	
106	3-312-441-00	RING, PISTON	
107	4-909-925-01	COVER, HOLDER	
108	X-4909-916-1	HOLDER ASSY (B), CASSETTE	105
109	*4-909-975-11	PLATE (5 GANG), INDICATION	
110	*4-909-976-01	HOUSE (5 GANG), LAMP	
111	*4-909-984-01	RETAINER, FULCRUM	
112	4-812-134-00	RIVET NYLON, 3.5	
113	*4-909-930-01	PLATE (A), SHIELD	
114	*4-909-912-01	PLATE (B), SHIELD	
115	*4-909-971-01	GUIDE, ORNAMENTAL PLATE	
116	4-888-031-00	KNOB, CONTROL, SLIDE	
117	*4-909-936-01	HOUSE (A), LED	
118	*3-317-118-00	HOLDER (A), LED	
119	4-909-977-11	KNOB, GRAPHIC EQUALIZER	
120	4-886-818-91	KNOB, CONTROL, SLIDE	
121	*4-910-511-01	SHEET, SPACER	
122	4-909-921-01	BUTTON, FWD	
123	4-909-922-01	BUTTON, FF	
124	4-909-923-01	BUTTON, REW	
125	4-909-926-01	BUTTON, STOP	
126	4-909-927-01	BUTTON, PAUSE	

No.	Part No.	Description	Remarks
127	4-909-928-01	BUTTON, REC	
128	*4-909-963-01	LEVER (B), DUBBING	
129	4-909-956-01	RETAINER, HOLDER FULCRUM	
130	X-4909-921-1	(AEP,UK)...PANEL ASSY, FRONT	
	X-4909-922-1	(G-AEP)....PANEL ASSY, FRONT	
131	*4-909-954-01	SHAFT, DUBBING BUTTON	
132	4-909-924-01	BUTTON, DUBBING	
133	*4-909-964-01	BRACKET, DUBBING LEVER	
134	4-909-961-01	SPRING	
135	*4-909-962-01	LEVER (A), DUBBING	
136	*4-909-955-01	SHAFT, DUBBING LEVER	
137	4-909-959-01	SPRING	
138	*4-909-903-01	BRACKET, MD	
139	*4-909-952-01	BRACKET (RIGHT), PC BOARD	
140	*4-909-953-01	BRACKET (LEFT), PC BOARD	
141	4-909-960-01	SPRING	
142	*4-909-957-01	PLATE, JOINT, MD	
143	7-685-646-71	SCREW +BVTP 3X8 TYPE2 N-S	
144	7-621-257-35	SCREW +P 2.3X5	
145	7-685-862-01	SCREW +BVTT 2.6X6 (S)	
146	7-685-871-01	SCREW +BVTT 3X6 (S)	
147	3-555-872-00	SPACER	
148	*4-910-516-01	(G-AEP)··· PLATE (B.TR),SHIELD	
922	*1-615-478-11	PC BOARD, SPECTRUM ANALYZER	
923	*A-4375-207-A	(AEP,UK)...MOUNTED PCB, CONTROL	
	*A-4375-208-A	(G-AEP)....MOUNTED PCB, CONTROL	
924	*A-4393-026-A	MOUNTED PCB, DECK	

(4) Deck A : TCM-50FMSB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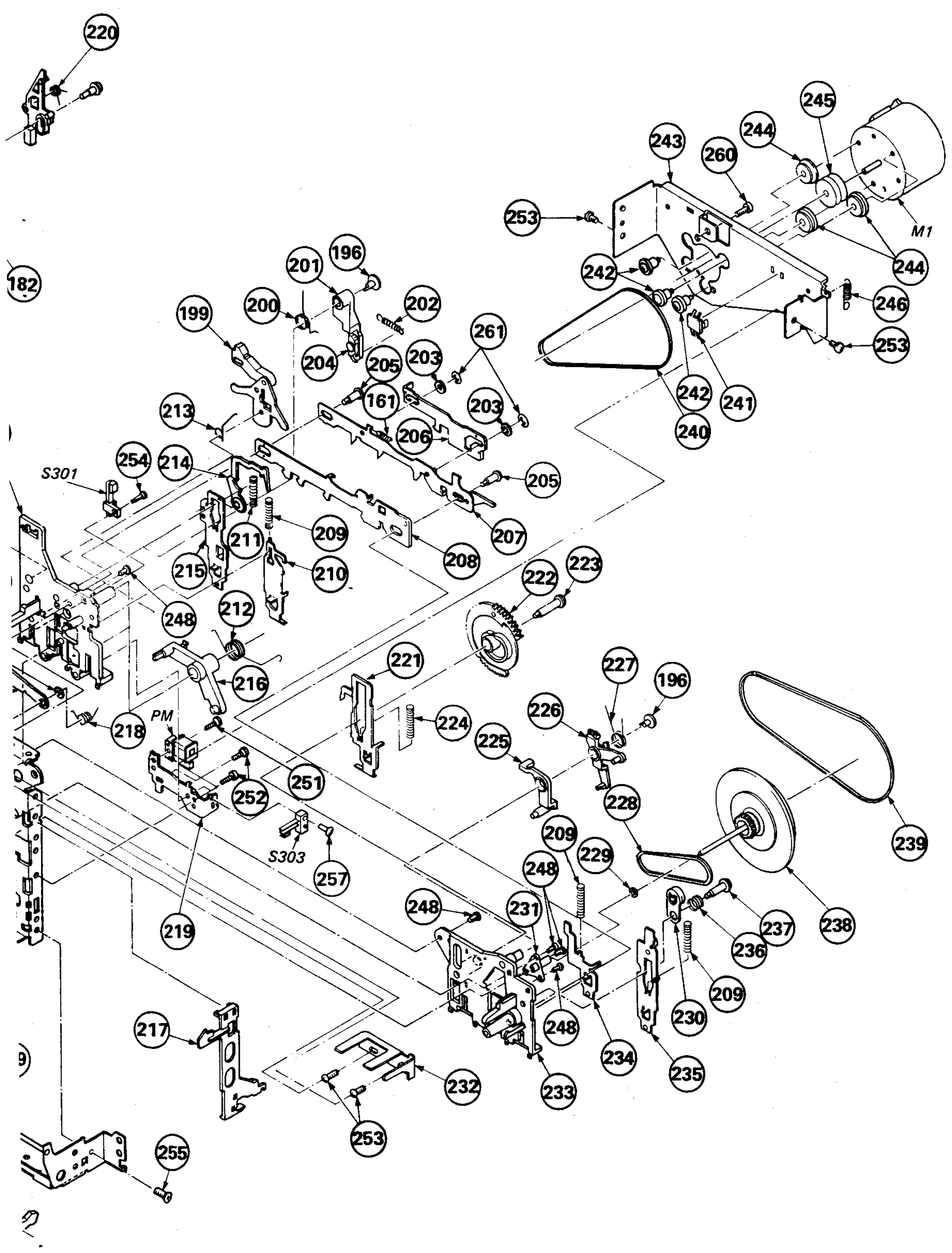
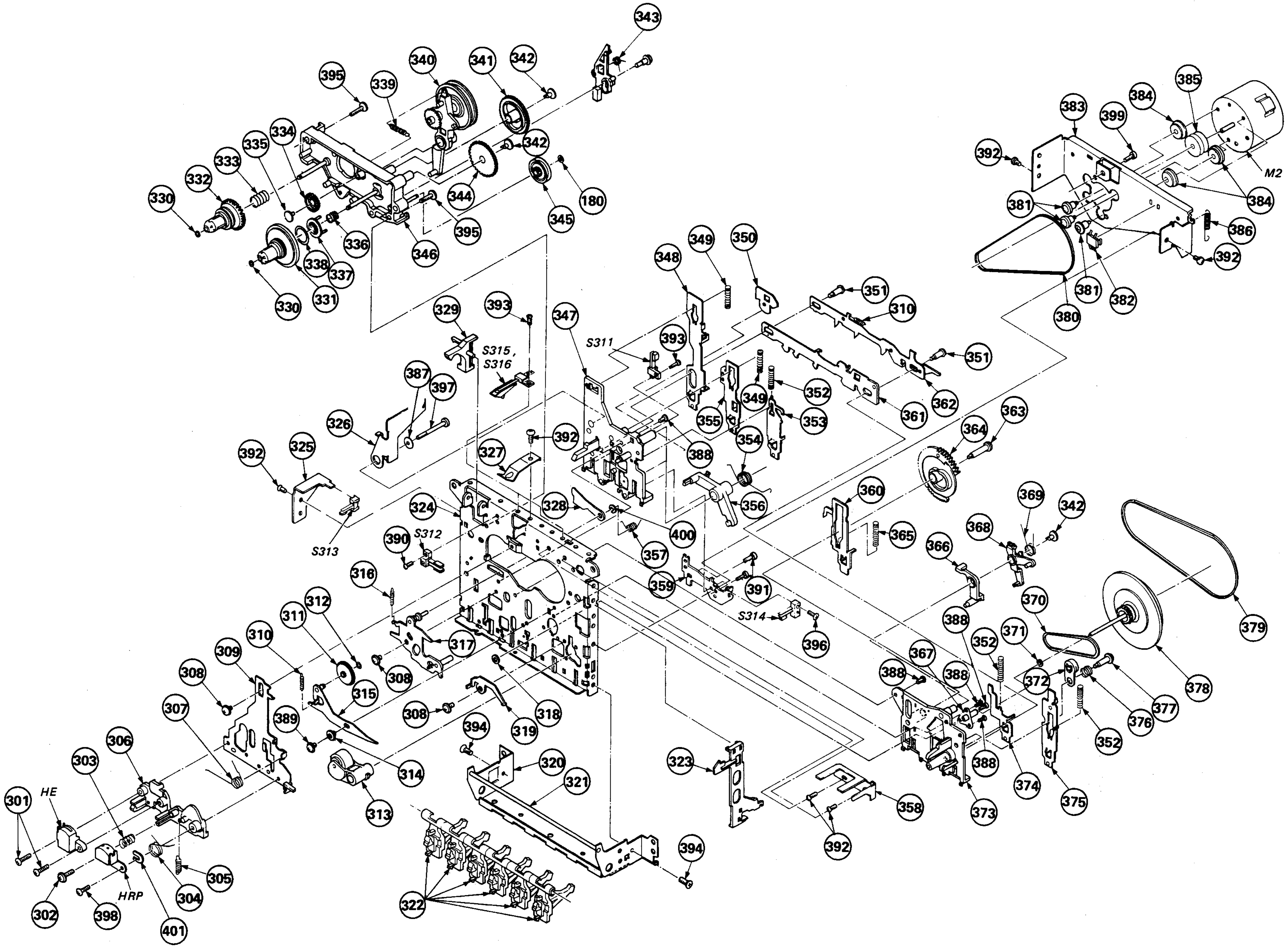


DECK A:TCM-50FMSB

No.	Part No.	Description	Remarks
151	3-595-988-01	SCREW (2X8.5), BINDING	
152	*3-595-986-01	GUIDE, TAPE	
153	3-595-972-01	SCREW (2X9), WASHER HEAD	
154	3-595-954-01	SPRING	
155	*3-595-926-01	BASE, HEAD	
156	3-595-955-01	SPRING	
157	3-595-956-01	SPRING	
158	3-595-953-01	SPRING	
159	3-595-964-01	SCREW (A)	
160	*3-595-912-01	CHASSIS, HEAD	
161	3-595-951-01	SPRING	
162	*X-3595-902-1	ARM (HT) ASSY, IDLER	
163	3-595-941-01	IDLER, PLAY	
164	3-595-969-01	WASHER, POLYSLIDER	
165	3-595-919-01	COLLAR	
166	X-3595-905-1	ARM ASSY, P ROLLER	
167	*3-595-978-01	COLLAR, BUTTON	
168	3-595-933-01	LEVER, BUTTON	
169	*3-595-920-01	SHAFT, BUTTON	
170	*3-595-915-01	HOLDER (C), BUTTON	
171	*3-595-902-01	ARM, PAUSE	
172	3-595-970-01	WASHER, OIL STOP	
173	3-595-982-01	SPRING	
174	3-595-987-01	WASHER, REEL	
175	X-3595-915-1	ARM (N) ASSY, RC LOCK	
176	3-595-946-01	SPRING (C)	
177	*X-3595-901-1	ARM ASSY, SHIFT	
178	*3-595-901-01	CHASSIS	
179	3-595-916-01	SPRING	
180	*3-595-989-01	LEVER (B), REC	
181	*3-595-977-01	ARM, TRIGGER	
182	3-558-708-11	WASHER, STOPPER	
183	X-3595-907-1	REEL ASSY, SUPPLY	
184	3-595-957-01	SPRING	
185	3-595-927-01	GEAR, FF	
186	3-595-928-01	BUSHING	
187	3-595-961-01	SPRING	
188	3-595-938-01	CLUTCH, AUTO	
189	3-595-968-01	FELT, AUTO CLUTCH	
190	X-3595-906-1	REEL ASSY, TAKE-UP	
191	X-3595-908-1	BASE ASST (B), REEL	
192	3-595-936-01	GEAR, AUTO	
193	3-595-963-01	SPRING	
194	X-3595-909-1	ARM ASSY, CLUTCH	
195	3-595-937-01	GEAR, AUTO CAM	
196	3-595-934-01	BUSHING	
197	3-595-935-01	PULLEY, AUTO	
198	3-595-923-01	HOLDER (B), LEVER	
199	X-3595-913-1	ARM ASSY, RC	
200	3-595-985-01	SPRING	
201	3-595-980-01	ARM, SOLENOID	
202	3-595-984-01	SPRING (H)	
203	3-701-439-11	WASHER	
204	3-595-979-01	SHAFT, CHIP	
205	3-595-965-01	SCREW (B)	
206	*3-595-976-01	CAM (S), LOCK	
207	X-3595-914-1	CAM (BS) ASSY, LOCK	
208	*3-595-975-01	CAM (C), LOCK	
209	3-595-948-01	SPRING	
210	*3-595-905-01	LEVER (H), REW	
211	3-595-949-01	SPRING	
212	3-595-983-01	SPRING (H)	
213	3-595-981-01	SPRING	
214	3-595-974-01	HOLDER, TRIGGER	
215	*X-3595-912-1	LEVER (S) ASSY, PLAY	
216	3-595-930-01	ARM (H), LOCK	
217	3-595-932-01	LEVER (F), EJECT	
218	3-595-950-01	SPRING (B)	
219	*3-595-906-01	BRACKET, SOLENOID	
220	3-595-960-01	SPRING	
221	*3-595-904-01	LEVER (H), FF	
222	3-595-929-01	GEAR (C)	
223	3-595-967-01	SCREW (D)	
224	3-595-947-01	SPRING	
225	3-595-939-01	ARM (B), AUTO	
226	3-595-940-01	ARM, AUTO LOCK	
227	3-595-962-01	SPRING	
228	3-595-944-01	BELT, AUTO	
229	3-701-437-21	WASHER	
230	3-595-924-01	CAM, PAUSE	
231	X-3595-911-1	HOUSING ASSY	
232	*3-595-913-01	PROTECTOR, SWITCH	
233	3-595-922-01	HOLDER (A), LEVER	
234	*3-595-903-01	LEVER, STOP	
235	*X-3595-903-1	LEVER (B) ASSY, PAUSE	
236	3-595-952-01	SPRING	
237	3-595-966-01	SCREW (C)	
238	X-3595-910-1	FLYWHEEL ASSY (H)	
239	3-595-942-01	BELT, DRIVE	
240	3-595-943-01	BELT, FR	
241	3-595-931-01	SPACER, CAPSTAN	
242	3-595-973-01	SCREW, MOTOR	
243	*3-595-914-01	HOLDER, MOTOR	
244	3-595-945-01	CUSHION, MOTOR	
245	3-595-921-01	PULLEY, MOTOR	
246	3-595-959-01	SPRING	
247	7-688-002-11	W 2.6, MIDDLE	
248	7-685-781-04	SCREW +PTT 2X4 (S)	
249	7-685-782-01	SCREW +PTT 2X5 (S)	
250	7-621-772-38	SCREW +PTT 2X6 (S)	
251	7-685-784-04	SCREW +PTT 2X8 (S)	
252	7-685-786-01	SCREW +PTT 2X12 (S)	
253	7-685-790-04	SCREW +PTT 2.6X4 (S)	
254	7-685-791-04	SCREW +PTT 2.6X5 (S)	
255	7-621-559-30	SCREW +K 2.6X5	
256	7-685-793-04	SCREW +BVTT 2.6X8 (S)	
257	7-685-864-01	SCREW +BVTT 2.6X10 (S)	
258	7-685-868-01	SCREW +BVTT 2.6X20 (S)	
259	7-621-772-40	SCREW +B 2X8	
260	7-685-792-04	SCREW +PTT 2.6X6 (S)	
261	7-624-104-04	STOP RING 2.0, TYPE -E	
262	3-513-237-01	SHIM, HEAD ADJUSTMENT (t=0.1)	
262	3-513-237-11	SHIM, HEAD ADJUSTMENT (t=0.2)	

(5) Deck B : TCM50FMB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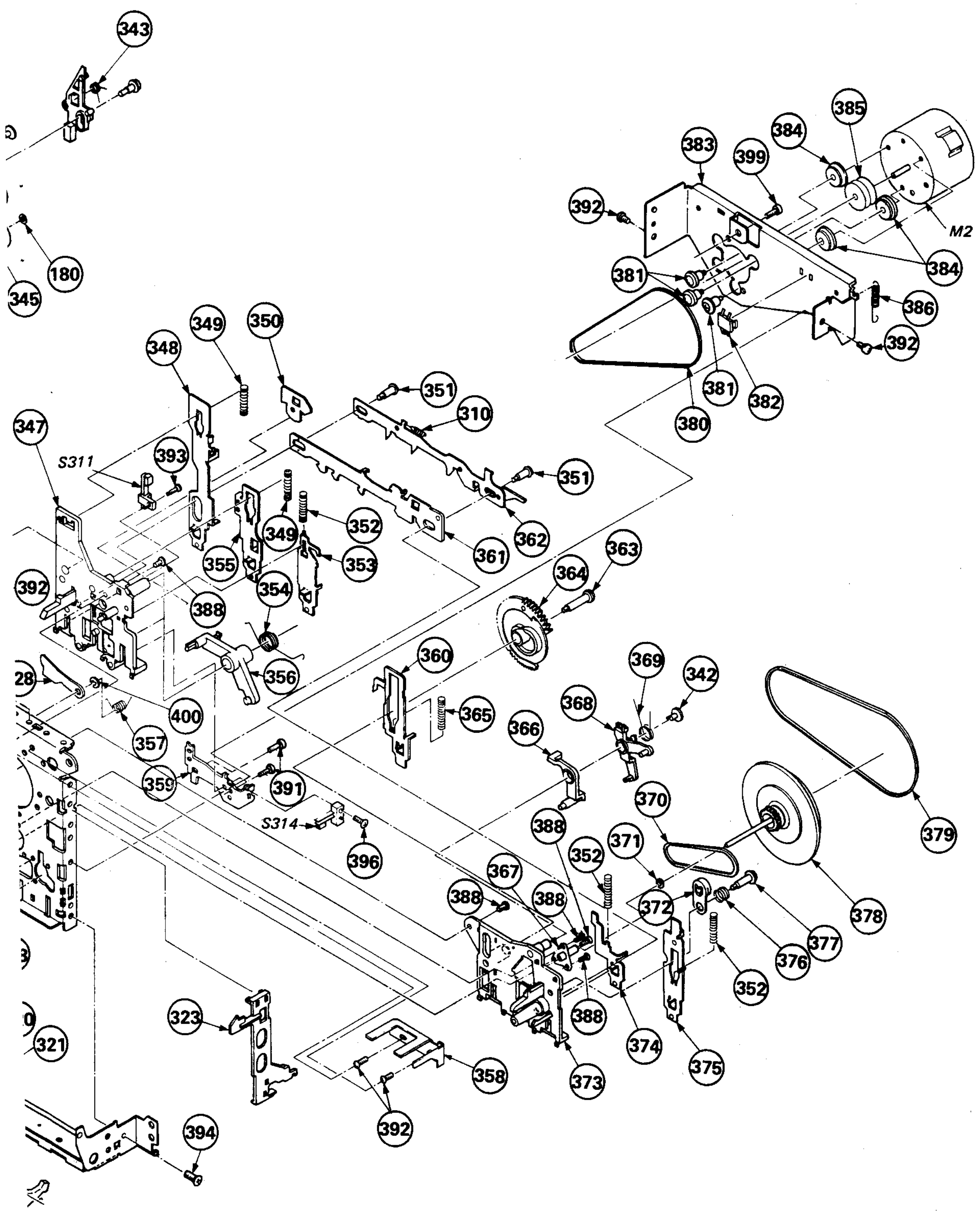

DECK B:TCM-50FMB

No.	Part No.	Description	Remarks
301	3-595-971-01	SCREW (2X9), BINDING	
302	3-595-972-01	SCREW (2X9), WASHER HEAD	
303	3-595-954-01	SPRING	
304	3-595-955-01	SPRING	
305	3-595-956-01	SPRING	
306	*3-595-926-01	BASE, HEAD	
307	3-595-953-01	SPRING	
308	3-595-964-01	SCREW (A)	
309	*3-595-912-01	CHASSIS, HEAD	
310	3-595-951-01	SPRING	
311	3-595-941-01	IDLER, PLAY	
312	3-595-969-01	WASHER, POLYSLIDER	
313	X-3595-905-1	ARM ASSY, P ROLLER	
314	3-595-919-01	COLLAR	
315	*X-3595-902-1	ARM (HT) ASSY, IDLER	
316	3-595-946-01	SPRING (C)	
317	*X-3595-901-1	ARM ASSY, SHIFT	
318	3-595-970-01	WASHER, OIL STOP	
319	*3-595-902-01	ARM, PAUSE	
320	*3-595-915-01	HOLDER (C), BUTTON	
321	*3-595-920-01	SHAFT, BUTTON	
322	3-595-933-01	LEVER, BUTTON	
323	3-595-932-01	LEVER (F), EJECT	
324	*3-595-901-01	CHASSIS	
325	*3-595-911-01	BRACKET, REC SWITCH	
326	*3-595-917-01	ARM, REC	
327	3-595-916-01	SPRING	
328	*3-595-908-01	LEVER (BH), REC	
329	3-595-925-01	SENSOR, REC	
330	3-558-708-11	WASHER, STOPPER	
331	X-3595-906-1	REEL ASSY, TAKE-UP	
332	X-3595-907-1	REEL ASSY, SUPPLY	
333	3-595-957-01	SPRING	
334	3-595-927-01	GEAR, FF	
335	3-595-928-01	BUSHING	
336	3-595-961-01	SPRING	
337	3-595-938-01	CLUTCH, AUTO	
338	3-595-968-01	FELT, AUTO CLUTCH	
339	3-595-963-01	SPRING	
340	X-3595-909-1	ARM ASSY, CLUTCH	
341	3-595-937-01	GEAR, AUTO CAM	
342	3-595-934-01	BUSHING	
343	3-595-960-01	SPRING	
344	3-595-936-01	GEAR, AUTO	
345	3-595-935-01	PULLEY, AUTO	
346	X-3595-908-1	BASE ASST (B), REEL	
347	3-595-923-01	HOLDER (B), LEVER	
348	*3-595-907-01	LEVER (C), REC	
349	3-595-949-01	SPRING	
350	*3-595-918-01	ARM, INTERLOCK	
351	3-595-965-01	SCREW (B)	
352	3-595-948-01	SPRING	
353	*3-595-905-01	LEVER (H), REW	
354	3-595-958-01	SPRING (C)	

DECK B:TCM-50FMB

No.	Part No.	Description	Remarks
355	*3-595-909-01	LEVER (B), PLAY	
356	3-595-930-01	ARM (H), LOCK	
357	3-595-950-01	SPRING (B)	
358	*3-595-913-01	PROTECTOR, SWITCH	
359	*3-595-906-01	BRACKET, SOLENOID	
360	*3-595-904-01	LEVER (H), FF	
361	*3-595-910-01	CAM (A), LOCK	
362	*X-3595-904-1	CAM (B) ASSY, LOCK	
363	3-595-967-01	SCREW (D)	
364	3-595-929-01	GEAR (C)	
365	3-595-947-01	SPRING	
366	3-595-939-01	ARM (B), AUTO	
367	X-3595-911-1	HOUSING ASSY	
368	3-595-940-01	ARM, AUTO LOCK	
369	3-595-962-01	SPRING	
370	3-595-944-01	BELT, AUTO	
371	3-701-437-11	WASHER	
372	3-595-924-01	CAM, PAUSE	
373	3-595-922-01	HOLDER (A), LEVER	
374	*3-595-903-01	LEVER, STOP	
375	*X-3595-903-1	LEVER (B) ASSY, PAUSE	
376	3-595-952-01	SPRING	
377	3-595-966-01	SCREW (C)	
378	X-3595-910-1	FLYWHEEL ASSY (H)	
379	3-595-942-01	BELT, DRIVE	
380	3-595-943-01	BELT, FR	
381	3-595-973-01	SCREW, MOTOR	
382	3-595-931-01	SPACER, CAPSTAN	
383	*3-595-914-01	HOLDER, MOTOR	
384	3-595-945-01	CUSHION, MOTOR	
385	3-595-921-01	PULLEY, MOTOR	
386	3-595-959-01	SPRING	
387	7-688-002-11	W 2.6, MIDDLE	
388	7-685-781-04	SCREW +PTT 2X4 (S)	
389	7-685-782-01	SCREW +PTT 2X5 (S)	
390	7-621-772-38	SCREW +PTT 2X6 (S)	
391	7-685-786-01	SCREW +PTT 2X12 (S)	
392	7-685-790-04	SCREW +PTT 2.6X4 (S)	
393	7-685-791-04	SCREW +PTT 2.6X5 (S)	
394	7-621-559-30	SCREW +K 2.6X5	
395	7-685-793-04	SCREW +BVTT 2.6X8 (S)	
396	7-685-864-01	SCREW +BVTT 2.6X10 (S)	
397	7-685-868-01	SCREW +BVTT 2.6X20 (S)	
398	7-621-772-40	SCREW +B 2X8	
399	7-685-792-04	SCREW +PTT 2.6X6 (S)	
400	7-624-104-04	STOP RING 2.0, TYPE -E	
401	3-513-237-01	SHIM, HEAD ADJUSTMENT (t=0.1)	
401	3-513-237-11	SHIM, HEAD ADJUSTMENT (t=0.2)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*1-615-471-11	PC BOARD, HEADPHONE JACK
902	*1-615-469-11	PC BOARD, CASSETTE ISS
903	*1-616-116-11	PC BOARD, TRANSISTOR A
904	*1-616-117-11	PC BOARD, TRANSISTOR B
905	*1-616-118-11	PC BOARD, TRANSISTOR C
906	1-533-162-00	HOLDER, FUSE
907	*A-4388-436-A	(AEP).....MOUNTED PCB, POWER
	*A-4388-437-A	(G-AEP)...MONUTED PCB, POWER
	*A-4388-438-A	(UK)......MONUTED PCB, POWER
908	*1-615-473-11	(AEP,UK)...PC BOARD, ANTENNA TERMINAL
909	⚠.1-534-817-XX	(AEP,G-AEP)...CORD, POWER, EULO PLUG
	⚠.1-555-001-00	(UK)..........CORD, POWER
910	*1-615-472-11	PC BOARD, POWER AMP
911	*1-615-474-14	(G-AEP)...PC BOARD, FRONT-END
912	1-557-841-11	CORD (WITH CONNECTOR)
913	*1-615-468-11	PC BOARD, CASSETTE INDICATOR
914	*1-615-477-11	PC BOARD, MIC JACK
915	*1-615-466-13	PC BOARD, LED
916	*1-615-464-11	PC BOARD, TUNING LED
917	*A-4351-424-A	(AEP,UK)...MOUNTED PCB, TUNER
	*A-4351-425-A	(G-AEP)....MOUNTED PCB, TUNER
918	*1-562-249-00	SOCKET, CONNECTOR 4P
919	*1-562-250-00	SOCKET, CONNECTOR 5P
920	*1-562-251-00	SOCKET, CONNECTOR 6P
921	*1-562-327-00	SOCKET, CONNECTOR 3P
922	*1-615-478-11	PC BOARD, SPECTRUM ANALYZER
923	*A-4375-207-A	(AEP,UK)...MOUNTED PCB, CONTROL
	*A-4375-208-A	(G-AEP)....MOUNTED PCB, CONTROL
924	*A-4393-026-A	MOUNTED PCB, DECK
925	1-535-416-00	(AEP,G-AEP)...TERMINAL
926	1-536-354-00	(G-AEP)...POST PIN
BPF001	1-231-720-00	(AEP,UK)...FILTER, BANDPASS
C001	1-102-942-00	(AEP,UK)...CERAMIC 5PF 50V
C001	1-101-005-00	(G-AEP)....CERAMIC 0.022MF 50V
C002	1-102-960-00	(AEP,UK)...CERAMIC 24PF 5% 50V
C003	1-102-935-00	(AEP,UK)...CERAMIC 2PF 50V
C004	1-102-959-00	(AEP,UK)...CERAMIC 22PF 5% 50V
C005	1-102-934-00	(AEP,UK)...CERAMIC 1PF 50V
C006	1-102-121-00	(AEP,UK)...CERAMIC 0.0022MF 10% 50V
C007	1-101-005-00	(AEP,UK)...CERAMIC 0.022MF 50V
C008	1-102-684-00	(AEP,UK)...CERAMIC 8PF 50V
C009	1-102-806-00	(AEP,UK)...CERAMIC 27PF 5% 50V
C010	1-102-684-00	(AEP,UK)...CERAMIC 8PF 50V
C012	1-102-935-00	(AEP,UK)...CERAMIC 2PF 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C013	1-101-005-00	(AEP,UK)...CERAMIC 0.022MF 50V
C015	1-123-379-00	(AEP,UK)...ELECT 0.47MF 20% 50V
C021	1-101-005-00	(AEP,UK)...CERAMIC 0.022MF 50V
C022	1-101-005-00	(AEP,UK)...CERAMIC 0.022MF 50V
C023	1-101-005-00	CERAMIC 0.022MF 50V
C024	1-101-005-00	(AEP,UK)...CERAMIC 0.022MF 50V
C051	1-102-942-00	CERAMIC 5PF 50V
C052	1-102-961-21	CERAMIC 27PF 5% 50V
C055	1-102-291-00	CERAMIC 15PF 5% 50V
C056	1-104-066-00	POLYSTYRENE 360PF 5% 50V
C057	1-102-852-00	CERAMIC 47PF 5% 50V
C058	1-103-701-00	POLYSTYRENE 100PF 5% 50V
C062	1-123-356-00	ELECT 10MF 20% 50V
C063	1-123-379-00	ELECT 0.47MF 20% 50V
C064	1-101-005-00	CERAMIC 0.022MF 50V
C065	1-102-947-00	CERAMIC 10PF 5% 50V
C066	1-101-005-00	CERAMIC 0.022MF 50V
C067	1-123-380-00	ELECT 1MF 20% 50V
C068	1-101-880-00	CERAMIC 47PF 5% 50V
C069	1-136-162-00	MYLAR 0.056MF 10% 50V
C070	1-101-005-00	CERAMIC 0.022MF 50V
C071	1-123-356-00	ELECT 10MF 20% 50V
C072	1-123-330-00	ELECT 22MF 20% 16V
C081	1-102-114-00	CERAMIC 470PF 10% 50V
C082	1-101-005-00	CERAMIC 0.022MF 50V
C091	1-102-110-00	CERAMIC 220PF 10% 50V
C093	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C094	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C095	1-123-330-00	(G-AEP)...ELECT 22MF 20% 16V
C096	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C097	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C098	1-123-380-00	(G-AEP)...ELECT 1MF 20% 50V
C101	1-101-005-00	CERAMIC 0.022MF 50V
C102	1-101-005-00	CERAMIC 0.022MF 50V
C103	1-101-005-00	CERAMIC 0.022MF 50V
C104	1-101-005-00	CERAMIC 0.022MF 50V
C105	1-102-114-00	(AEP,UK)...CERAMIC 470PF 10% 50V
C105	1-102-116-00	(G-AEP)....CERAMIC 680PF 10% 50V
C106	1-102-110-00	(AEP,UK)...CERAMIC 220PF 10% 50V
C106	1-102-114-00	(G-AEP)....CERAMIC 470PF 10% 50V
C110	1-102-672-00	(AEP,UK)...CERAMIC 24PF 5% 50V
C201	1-123-332-00	(G-AEP)....ELECT 47MF 20% 16V
C202	1-123-607-00	ELECT 0.1MF 20% 50V
C203	1-123-382-00	ELECT 3.3MF 20% 50V
C204	1-123-380-00	ELECT 1MF 20% 50V
C205	1-123-380-00	ELECT 1MF 20% 50V

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Ref.No.	Part No.	Description			
C206	1-101-005-00	CERAMIC	0.022MF		50V
C207	1-123-380-00	ELECT	1MF	20%	50V
C208	1-123-380-00	ELECT	1MF	20%	50V
C209	1-123-356-00	ELECT	10MF	20%	50V
C210	1-162-292-31	CERAMIC	680PF	10%	50V
C211	1-162-292-31	CERAMIC	680PF	10%	50V
C212	1-123-356-00	ELECT	10MF	20%	50V
C213	1-123-379-00	ELECT	0.47MF	20%	50V
C214	1-123-379-00	ELECT	0.47MF	20%	50V
C215	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C216	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C217	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C218	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C219	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C220	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C232	1-123-379-00	ELECT	0.47MF	20%	50V
C233	1-101-005-00	CERAMIC	0.022MF		50V
C292	1-123-356-00	ELECT	10MF	20%	50V
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-102-106-00	CERAMIC	100PF	10%	50V
C303	1-130-480-00	MYLAR	0.0056MF	5%	50V
C304	1-123-306-00	ELECT	47MF	20%	10V
C305	1-123-356-00	ELECT	10MF	20%	25V
C306	1-130-488-00	MYLAR	0.027MF	5%	50V
C307	1-130-488-00	MYLAR	0.027MF	5%	50V
C308	1-102-116-00	CERAMIC	680PF	10%	50V
C309	1-102-106-00	CERAMIC	100PF	10%	50V
C310	1-130-480-00	MYLAR	0.0056MF	5%	50V
C311	1-123-306-00	ELECT	47MF	20%	10V
C312	1-123-356-00	ELECT	10MF	20%	25V
C313	1-130-488-00	MYLAR	0.027MF	5%	50V
C314	1-162-292-31	CERAMIC	680PF	10%	50V
C315	1-102-116-00	CERAMIC	680PF	10%	50V
C316	1-123-609-00	ELECT	0.33MF	20%	50V
C317	1-130-495-00	MYLAR	0.1MF	5%	50V
C318	1-130-483-00	MYLAR	0.01MF	5%	50V
C319	1-136-160-00	MYLAR	0.039MF	5%	50V
C320	1-123-356-00	ELECT	10MF	20%	25V
C321	1-136-162-00	MYLAR	0.056MF	5%	50V
C322	1-130-481-00	MYLAR	0.0068MF	5%	50V
C323	1-130-485-00	MYLAR	0.015MF	5%	50V
C324	1-123-369-00	ELECT	4.7MF	20%	25V
C325	1-123-369-00	ELECT	4.7MF	20%	25V
C326	1-102-947-00	CERAMIC	10PF	5%	50V
C327	1-102-106-00	CERAMIC	100PF	10%	50V
C328	1-101-880-00	CERAMIC	47PF	5%	50V
C329	1-101-880-00	CERAMIC	47PF	5%	50V
C330	1-123-369-00	ELECT	4.7MF	20%	25V
C331	1-130-481-00	MYLAR	0.0068MF	5%	50V
C332	1-130-483-00	MYLAR	0.01MF	5%	50V
C333	1-130-472-00	MYLAR	0.0012MF	5%	50V
C334	1-130-485-00	MYLAR	0.015MF	5%	50V
C335	1-130-485-00	MYLAR	0.015MF	5%	50V
C336	1-130-477-00	MYLAR	0.0033MF	5%	50V
C337	1-130-481-00	MYLAR	0.0068MF	5%	50V
C338	1-130-472-00	MYLAR	0.0012MF	5%	50V
C339	1-130-487-00	MYLAR	0.022MF	5%	50V
C340	1-130-485-00	MYLAR	0.015MF	5%	50V
C341	1-123-356-00	ELECT	10MF	20%	25V
C342	1-123-356-00	ELECT	10MF	20%	25V
C343	1-102-947-00	CERAMIC	10PF	5%	50V
C345	1-102-971-00	CERAMIC	82PF	5%	50V
C346	1-101-361-00	CERAMIC	150PF	5%	50V
C347	1-123-332-00	ELECT	47MF	20%	25V
C348	1-123-332-00	ELECT	47MF	20%	25V
C349	1-123-356-00	ELECT	10MF	20%	25V
C350	1-123-369-00	ELECT	4.7MF	20%	25V
C351	1-123-380-00	ELECT	1MF	20%	50V
C352	1-123-356-00	ELECT	10MF	20%	25V
C356	1-123-356-00	ELECT	10MF	20%	25V
C357	1-123-356-00	ELECT	10MF	20%	25V
C358	1-123-356-00	ELECT	10MF	20%	25V
C359	1-123-356-00	ELECT	10MF	20%	25V
C360	1-129-713-00	FILM	0.0082MF	10%	630V
C361	1-106-178-00	MYLAR	0.0018MF	10%	100V
C362	1-106-178-00	MYLAR	0.0018MF	10%	100V
C363	1-130-479-00	MYLAR	0.0047MF	5%	50V
C364	1-130-479-00	MYLAR	0.0047MF	5%	50V
C365	1-130-485-00	MYLAR	0.015MF	5%	50V
C366	1-123-332-00	ELECT	47MF	20%	25V
C367	1-123-330-00	ELECT	22MF	20%	25V
C368	1-123-369-00	ELECT	4.7MF	20%	25V
C369	1-123-380-00	ELECT	1MF	20%	50V
C370	1-123-380-00	ELECT	1MF	20%	50V
C371	1-123-380-00	ELECT	1MF	20%	50V
C372	1-123-380-00	ELECT	1MF	20%	50V
C373	1-136-160-00	MYLAR	0.039MF	5%	50V
C374	1-130-495-00	MYLAR	0.1MF	5%	50V
C375	1-123-356-00	ELECT	10MF	20%	25V
C376	1-123-380-00	ELECT	1MF	20%	50V
C377	1-123-380-00	ELECT	1MF	20%	50V
C378	1-123-380-00	ELECT	1MF	20%	50V
C379	1-130-483-00	MYLAR	0.01MF	5%	50V
C381	1-123-356-00	ELECT	10MF	20%	25V
C382	1-123-356-00	ELECT	10MF	20%	25V
C383	1-123-356-00	ELECT	10MF	20%	25V
C384	1-123-356-00	ELECT	10MF	20%	25V
C385	1-123-356-00	ELECT	10MF	20%	25V
C386	1-162-292-31	CERAMIC	680PF	10%	50V
C387	1-162-292-31	CERAMIC	680PF	10%	50V
C389	1-123-356-00	ELECT	10MF	20%	25V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-102-106-00	CERAMIC	100PF	10%	50V
C403	1-130-480-00	MYLAR	0.0056MF	5%	50V
C404	1-123-306-00	ELECT	47MF	20%	10V
C405	1-123-356-00	ELECT	10MF	20%	25V
C406	1-130-488-00	MYLAR	0.027MF	5%	50V
C407	1-130-488-00	MYLAR	0.027MF	5%	50V
C408	1-102-116-00	CERAMIC	680PF	10%	50V
C409	1-102-106-00	CERAMIC	100PF	10%	50V

Ref.No.	Part No.	Description			
C410	1-130-480-00	MYLAR	0.0056MF	5%	50V
C411	1-123-306-00	ELECT	47MF	20%	10V
C412	1-123-356-00	ELECT	10MF	20%	25V
C413	1-130-488-00	MYLAR	0.027MF	5%	50V
C414	1-161-292-31	CERAMIC	680PF	10%	50V
C415	1-102-116-00	CERAMIC	680PF	10%	50V
C416	1-123-609-00	ELECT	0.33MF	20%	50V
C417	1-130-495-00	MYLAR	0.1MF	5%	50V
C418	1-130-483-00	MYLAR	0.01MF	5%	50V
C419	1-136-160-00	MYLAR	0.039MF	5%	50V
C420	1-123-356-00	ELECT	10MF	20%	25V
C421	1-136-162-00	MYLAR	0.056MF	5%	50V
C422	1-130-481-00	MYLAR	0.0068MF	5%	50V
C423	1-130-485-00	MYLAR	0.015MF	5%	50V
C424	1-123-369-00	ELECT	4.7MF	20%	25V
C425	1-123-369-00	ELECT	4.7MF	20%	25V
C426	1-102-947-00	CERAMIC	10PF	5%	50V
C427	1-102-106-00	CERAMIC	100PF	10%	50V
C428	1-101-880-00	CERAMIC	47PF	5%	50V
C429	1-101-880-00	CERAMIC	47PF	5%	50V
C430	1-123-369-00	ELECT	4.7MF	20%	25V
C431	1-130-481-00	MYLAR	0.0068MF	5%	50V
C432	1-130-483-00	MYLAR	0.01MF	5%	50V
C433	1-130-472-00	MYLAR	0.0012MF	5%	50V
C434	1-130-485-00	MYLAR	0.015MF	5%	50V
C435	1-130-485-00	MYLAR	0.015MF	5%	50V
C436	1-130-477-00	MYLAR	0.0033MF	5%	50V
C437	1-130-481-00	MYLAR	0.0068MF	5%	50V
C438	1-130-472-00	MYLAR	0.0012MF	5%	50V
C439	1-130-487-00	MYLAR	0.022MF	5%	50V
C440	1-130-485-00	MYLAR	0.015MF	5%	50V
C441	1-123-356-00	ELECT	10MF	20%	25V
C442	1-123-356-00	ELECT	10MF	20%	25V
C443	1-102-947-00	CERAMIC	10PF	5%	50V
C445	1-102-971-00	CERAMIC	82PF	5%	50V
C446	1-101-361-00	CERAMIC	150PF	5%	50V
C501	1-123-612-00	ELECT	2.2MF	20%	50V
C502	1-162-207-31	CERAMIC	22PF	5%	50V
C503	1-123-318-00	ELECT	33MF	20%	16V
C504	1-162-219-31	CERAMIC	68PF	5%	50V
C505	1-162-215-31	CERAMIC	47PF	5%	50V
C506	1-123-611-00	ELECT	1MF	20%	50V
C507	1-136-164-00	FILM	0.082MF	5%	50V
C508	1-123-608-00	ELECT	0.22MF	20%	50V
C509	1-130-486-00	MYLAR	0.018MF	5%	50V
C510	1-136-162-00	MYLAR	0.056MF	5%	50V
C511	1-130-479-00	MYLAR	0.0047MF	5%	50V
C512	1-130-485-00	MYLAR	0.015MF	5%	50V
C513	1-130-472-00	MYLAR	0.0012MF	5%	50V
C514	1-130-479-00	MYLAR	0.0047MF	5%	50V
C515	1-162-289-31	CERAMIC	390PF	10%	50V
C550	1-162-286-31	(G-AEP)....CERAMIC	220PF	10%	50V
C551	1-123-611-00	ELECT	1MF	20%	50V
C552	1-123-608-00	ELECT	0.22MF	20%	50V

Ref.No.	Part No.	Description			
C553	1-136-160-00	MYLAR	0.039MF	5%	50V
C554	1-130-491-00	MYLAR	0.047MF	5%	50V
C555	1-130-483-00	MYLAR	0.01MF	5%	50V
C556	1-130-484-00	MYLAR	0.012MF	5%	50V
C557	1-130-475-00	MYLAR	0.0022MF	5%	50V
C558	1-130-476-00	MYLAR	0.0027MF	5%	50V
C559	1-162-291-31	CERAMIC	560PF	10%	50V
C560	1-162-294-31	CERAMIC	0.001MF	10%	50V
C561	1-162-285-31	CERAMIC	180PF	10%	50V
C564	1-123-615-00	ELECT	4.7MF	20%	35V
C565	1-123-615-00	ELECT	4.7MF	20%	35V
C566	1-123-615-00	ELECT	4.7MF	20%	35V
C567	1-123-615-00	ELECT	4.7MF	20%	35V
C568	1-123-615-00	ELECT	4.7MF	20%	35V
C569	1-123-617-00	ELECT	10MF	20%	16V
C570	1-123-611-00	ELECT	1MF	20%	50V
C571	1-162-306-31	CERAMIC	0.01MF	20%	16V
C572	1-102-074-00	CERAMIC	0.001MF	10%	50V
C573	1-123-611-00	ELECT	1MF	20%	50V
C574	1-123-318-00	ELECT	33MF	20%	16V
C575	1-123-617-00	ELECT	10MF	20%	16V
C601	1-123-612-00	ELECT	2.2MF	20%	50V
C602	1-162-207-31	CERAMIC	22PF	5%	50V
C603	1-123-318-00	ELECT	33MF	20%	16V
C604	1-162-219-31	CERAMIC	68PF	5%	50V
C605	1-162-215-31	CERAMIC	47PF	5%	50V
C606	1-123-611-00	ELECT	1MF	20%	50V
C607	1-136-164-00	FILM	0.082MF	5%	50V
C608	1-123-608-00	ELECT	0.22MF	20%	50V
C609	1-130-486-00	MYLAR	0.018MF	5%	50V
C610	1-136-162-00	MYLAR	0.056MF	5%	50V
C611	1-130-479-00	MYLAR	0.0047MF	5%	50V
C612	1-130-485-00	MYLAR	0.015MF	5%	50V
C613	1-130-472-00	MYLAR	0.0012MF	5%	50V
C614	1-130-479-00	MYLAR	0.0047MF	5%	50V
C615	1-162-289-31	CERAMIC	390PF	10%	50V
C650	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C651	1-123-382-00	ELECT	3.3MF	20%	50V
C652	1-123-611-00	ELECT	1MF	20%	50V
C653	1-123-382-00	ELECT	3.3MF	20%	50V
C654	1-123-617-00	ELECT	10MF	20%	16V
C655	1-161-494-00	CERAMIC	0.022MF	30%	25V
C656	1-123-622-00	ELECT	22MF	20%	16V
C657	1-123-356-00	ELECT	10MF	20%	25V
C658	1-123-617-00	ELECT	10MF	20%	16V
C701	1-123-381-00	ELECT	2.2MF	20%	50V
C702	1-162-290-31	CERAMIC	470PF	10%	50V
C703	1-162-282-31	(AEP,UK)...CERAMIC	100PF	10%	50V
C704	1-123-369-00	ELECT	4.7MF	20%	50V
C705	1-130-489-00	MYLAR	0.033MF	5%	50V
C706	1-162-286-31	CERAMIC	220PF	10%	50V
C707	1-136-165-00	(G-AEP)....MYLAR	0.1MF	10%	50V
C749	1-162-294-31	(G-AEP)....CERAMIC	1000PF	10%	50V
C750	1-162-286-31	(G-AEP)....CERAMIC	220PF	10%	50V
C758	1-123-356-00	ELECT	10MF	20%	50V
C801	1-123-381-00	ELECT	2.2MF	20%	50V
C802	1-162-290-31	CERAMIC	470PF	10%	50V

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Ref.No.	Part No.	Description
C803	1-162-282-31	(AEP,UK)...CERAMIC 100PF 10% 50V
C804	1-123-369-00	ELECT 4.7MF 20% 50V
C805	1-130-489-00	MYLAR 0.033MF 5% 50V
C806	1-162-286-31	CERAMIC 220PF 10% 50V
C807	1-136-165-00	(G-AEP)...MYLAR 0.1MF 10% 50V
C849	1-162-294-31	(G-AEP)...CERAMIC 1000PF 10% 50V
C850	1-162-286-31	(G-AEP)...CERAMIC 220PF 10% 50V
C858	1-123-356-00	ELECT 10MF 20% 50V
C900 ⚠	1-161-744-00	CERAMIC 0.01MF 400V
C901	1-124-362-00	ELECT 4700MF 20% 42V
C902	1-124-362-00	ELECT 4700MF 20% 42V
C903	1-123-332-00	ELECT 47MF 20% 16V
C904	1-123-330-00	ELECT 22MF 20% 25V
C905	1-123-356-00	ELECT 10MF 20% 50V
C907	1-123-345-00	ELECT 100MF 20% 35V
C908	1-123-345-00	ELECT 100MF 20% 35V
C909	1-123-356-00	ELECT 10MF 20% 50V
C910	1-123-359-00	ELECT 47MF 20% 35V
C911	1-123-359-00	ELECT 47MF 20% 35V
C912	1-123-356-00	ELECT 10MF 20% 50V
C913	1-136-165-00	MYLAR 0.1MF 10% 50V
C914	1-162-294-31	CERAMIC 0.001MF 10% 50V
C915	1-162-294-31	CERAMIC 0.001MF 10% 50V
C916	1-162-294-31	CERAMIC 0.001MF 10% 50V
C917	1-136-165-00	(AEP,UK)...MYLAR 0.1MF 10% 50V
C951	1-101-006-00	CERAMIC 0.047MF 50V
C952	1-101-006-00	CERAMIC 0.047MF 50V
C953	1-101-006-00	CERAMIC 0.047MF 50V
C954	1-101-006-00	CERAMIC 0.047MF 50V
C957	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C958	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C959	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C960	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C961	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C962	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C963	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
C964	1-101-005-00	(G-AEP)...CERAMIC 0.022MF 50V
CF001	1-527-968-00	(G-AEP)....FILTER, CERAMIC
CF051	1-527-937-00	FILTER, CERAMIC
CF101	1-527-964-00	(AEP,UK)...FILTER, CERAMIC
CF101	1-527-968-00	(G-AEP)....FILTER, CERAMIC
CF102	1-527-964-00	(AEP,UK)...FILTER, CERAMIC
CF102	1-527-968-00	(G-AEP)....FILTER, CERAMIC
CF201	1-567-250-11	OSCILLATOR, CERAMIC
CNJ091	1-561-919-00	(G-AEP)....SOCKET, CONNECTOR
CNJ701	1-507-997-11	JACK, PIN 2P, CD/AUX
CNJ704	1-562-479-11	SOCKET, CONNECTOR 10P
CNP101	*1-560-602-00	(AEP,UK)...PIN, CONNECTOR 3P
CNP102	*1-560-062-00	PIN, CONNECTOR 4P
CNP151	1-564-111-00	(G-AEP)....PIN, CONNECTOR 2P
CNP152	1-564-112-21	(G-AEP)....PIN, CONNECTOR 3P
CNP154	*1-564-505-11	PLUG, CONNECTOR 2P
CNP301	*1-564-511-11	PLUG, CONNECTOR 8P
CNP302	*1-564-507-11	PLUG, CONNECTOR 4P
CNP303	*1-564-507-11	PLUG, CONNECTOR 4P

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Replace only with part numer specified.

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Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
CNP304	*1-564-515-11	PLUG, CONNECTOR 12P
CNP307	*1-564-505-11	PLUG, CONNECTOR 2P
CNP308	*1-564-509-11	PLUG, CONNECTOR 6P
CNP309	*1-564-506-11	PLUG, CONNECTOR 3P
CNP310	*1-564-505-11	PLUG, CONNECTOR 2P
CNP311	*1-560-603-00	PIN, CONNECTOR 4P
CNP501	*1-564-113-11	PIN, CONNECTOR 4P
CNP502	*1-564-118-00	PIN, CONNECTOR 9P
CNP503	*1-560-602-00	PIN, CONNECTOR 3P
CNP701	*1-560-066-00	PIN, CONNECTOR 10P
CNP702	*1-560-061-00	PIN, CONNECTOR 3P
CNP703	*1-560-060-00	PIN, CONNECTOR 2P
CP101	1-235-046-00	ENCAPSULATED COMPONENT (B.E.F)
CT001	1-151-440-00	(AEP,UK)...CAP, TUNING, POLYETHYLENE
CT002	1-141-263-11	(AEP,UK)...CAP, TRIMMER
CT051	1-141-179-12	CAP, TRIMMER
CT052	1-141-179-12	CAP, TRIMMER
CT054	1-141-179-12	CAP, TRIMMER
CT055	1-141-179-12	CAP, TRIMMER
CV001	1-151-440-00	(AEP,UK)...CAP, TUNING, POLYETHYLENE
CV002	1-151-440-00	(AEP,UK)...CAP, TUNING, POLYETHYLENE
CV051	1-151-440-00	(AEP,UK)...CAP, TUNING, POLYETHYLENE
CV051	1-151-491-11	(G-AEP)....CAP, VAR, POLYETHYLENE
CV052	1-151-440-00	(AEP,UK)...CAP, TUNING, POLYETHYLENE
CV052	1-151-491-11	(G-AEP)....CAP, VAR, POLYETHYLENE
D091	8-719-910-94	(G-AEP)...DIODE HZ9B1L
D092	8-719-000-12	(G-AEP)...DIODE MC931
D104	8-719-107-94	DIODE 1SS202-1
D201	8-719-301-38	DIODE SEL2210S-C
D202	8-719-107-94	DIODE 1SS202-1
D204	8-719-107-94	DIODE 1SS202-1
D205	8-719-107-94	DIODE 1SS202-1
D251	8-719-920-25	DIODE SLR-40DC3
D301	8-719-107-94	DIODE 1SS202-1
D302	8-719-107-94	DIODE 1SS202-1
D303	8-719-107-94	DIODE 1SS202-1
D304	8-719-107-94	DIODE 1SS202-1
D305	8-719-107-94	DIODE 1SS202-1
D306	8-719-107-94	DIODE 1SS202-1
D307	8-719-107-94	DIODE 1SS202-1
D308	8-719-107-94	DIODE 1SS202-1
D309	8-719-107-94	DIODE 1SS202-1
D310	8-719-107-94	DIODE 1SS202-1
D311	8-719-107-94	DIODE 1SS202-1
D312	8-719-107-94	DIODE 1SS202-1
D313	8-719-107-94	DIODE 1SS202-1
D314	8-719-107-94	DIODE 1SS202-1
D315	8-719-107-94	DIODE 1SS202-1
D316	8-719-107-94	DIODE 1SS202-1
D317	8-719-107-94	DIODE 1SS202-1
D318	8-719-107-94	DIODE 1SS202-1
D319	8-719-107-94	DIODE 1SS202-1
D320	8-719-107-94	DIODE 1SS202-1
D321	8-719-107-94	DIODE 1SS202-1
D323	8-719-107-94	DIODE 1SS202-1

Ref.No.	Part No.	Description
D324	8-719-107-94	DIODE 1SS202-1
D325	8-719-107-94	DIODE 1SS202-1
D326	8-719-107-94	DIODE 1SS202-1
D327	8-719-107-94	DIODE 1SS202-1
D328	8-719-107-94	DIODE 1SS202-1
D329	8-719-107-94	DIODE 1SS202-1
D330	8-719-910-29	DIODE HZ12C3L
D331	8-719-910-29	DIODE HZ12C3L
D332	8-719-910-61	DIODE HZ6A1L
D333	8-719-107-94	DIODE 1SS202-1
D334	8-719-910-29	DIODE HZ12C3L
D351	8-719-301-62	DIODE SEL1213C-C
D352	8-719-301-62	DIODE SEL1213C-C
D353	8-719-301-62	DIODE SEL1213C-C
D354	8-719-301-62	DIODE SEL1213C-C
D355	8-719-910-29	DIODE HZ12C3L
D401	8-719-107-94	DIODE 1SS202-1
D402	8-719-107-94	DIODE 1SS202-1
D403	8-719-107-94	DIODE 1SS202-1
D501	8-719-301-55	DIODE SEL2813A-C
D502	8-719-301-55	DIODE SEL2813A-C
D503	8-719-301-55	DIODE SEL2813A-C
D504	8-719-301-55	DIODE SEL2813A-C
D505	8-719-301-52	DIODE SEL2810A-C
D506	8-719-301-52	DIODE SEL2810A-C
D507	8-719-301-52	DIODE SEL2810A-C
D508	8-719-301-52	DIODE SEL2810A-C
D509	8-719-301-52	DIODE SEL2810A-C
D510	8-719-301-52	DIODE SEL2810A-C
D511	8-719-301-52	DIODE SEL2810A-C
D512	8-719-301-52	DIODE SEL2810A-C
D513	8-719-301-52	DIODE SEL2810A-C
D514	8-719-301-52	DIODE SEL2810A-C
D515	8-719-301-52	DIODE SEL2810A-C
D516	8-719-301-52	DIODE SEL2810A-C
D517	8-719-301-52	DIODE SEL2810A-C
D518	8-719-301-52	DIODE SEL2810A-C
D519	8-719-301-52	DIODE SEL2810A-C
D520	8-719-301-52	DIODE SEL2810A-C
D521	8-719-301-52	DIODE SEL2810A-C
D522	8-719-301-52	DIODE SEL2810A-C
D523	8-719-301-52	DIODE SEL2810A-C
D524	8-719-301-52	DIODE SEL2810A-C
D525	8-719-301-52	DIODE SEL2810A-C
D526	8-719-301-52	DIODE SEL2810A-C
D527	8-719-301-52	DIODE SEL2810A-C
D528	8-719-301-52	DIODE SEL2810A-C
D529	8-719-301-52	DIODE SEL2810A-C
D530	8-719-107-94	DIODE 1SS202-1
D901	8-719-502-20	DIODE S2VB20
D902	8-719-910-19	(G-AEP)...DIODE HZ11C3L
D903	8-719-910-15	DIODE HZ11B2L
D904	8-719-910-22	DIODE HZ12B2L
D905	8-719-107-94	DIODE 1SS202-1

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Ref.No.	Part No.	Description
F901	⚠1-532-215-00	FUSE, TIME-LAG, T800mA
FE091	1-463-611-11	(G-AEP)...FRONT END, FM (FEE-4013A)
HE	1-543-261-11	HEAD, ERASE (886-01-24)
HP	1-543-260-11	HEAD, REC/PB (223-30-46)
HRP	1-543-260-11	HEAD, REC/PB (223-30-46)
IC101	8-759-801-37	IC LA1260C
IC201	8-759-801-80	IC LA3401
IC301	8-759-600-02	IC M5218L
IC302	8-759-600-02	IC M5218L
IC303	8-759-300-76	IC CX-174A-2
IC304	8-759-600-02	IC M5218L
IC305	8-759-905-47	IC BA338
IC351	8-759-240-01	IC TC4001BP
IC352	8-759-240-01	IC TC4001BP
IC353	8-759-240-01	IC TC4001BP
IC354	8-759-240-81	IC TC4081BP
IC355	8-759-240-81	IC TC4081BP
IC403	8-759-300-76	IC CX-174A-2
IC501	8-759-602-04	IC M5226P
IC502	8-759-800-33	IC LC7815H
IC503	8-759-600-02	IC M5218L
IC504	8-759-913-80	IC IR2E31
IC505	8-759-913-80	IC IR2E31
IC506	8-759-913-80	IC IR2E31
IC507	8-759-913-80	IC IR2E31
IC508	8-759-913-80	IC IR2E31
IC601	8-759-602-04	IC M5226P
IC701	8-749-941-21	IC STK4121II
IFT051	1-404-413-00	TRANSFORMER, IF
IFT101	1-404-534-11	TRANSFORMER, IF
J501	1-507-984-11	JACK (LARGE TYPE), MIC
J701	1-507-825-00	JACK, LARGE TYPE, HEADPHONES
L001	*1-420-884-00	(AEP,UK)...COIL, AIR CORE
L002	*1-420-840-00	(AEP,UK)...COIL
L003	1-459-412-00	(AEP,UK)...COIL (WITH CORE)
L051	1-402-037-00	COIL (ANT)
L052	1-402-038-00	COIL (ANT)
L054	1-406-065-00	COIL (OSC)
L055	1-405-921-00	COIL, OSCILLATOR
L057	1-408-555-00	MICRO INDUCTOR 2.2UH
L058	1-408-224-00	MICRO INDUCTOR 47MMH
L201	1-408-257-00	MICRO INDUCTOR 10MMH
L202	1-408-257-00	MICRO INDUCTOR 10MMH
L301	1-408-262-00	MICRO INDUCTOR 27MMH
L401	1-408-262-00	MICRO INDUCTOR 27MMH
L701	*1-420-872-00	COIL, AIR CORE
L801	*1-420-872-00	COIL, AIR CORE
L901	1-402-155-11	ANTENNA, FERRITE-ROD (LW/MW)
M1	1-541-298-11	MOTOR (BFB2L54)
M2	1-541-298-11	MOTOR (BFB2L54)
PM	1-454-400-11	PLUNGER
Q001	8-729-672-43	(AEP,UK)...TRANSISTOR 2SC2724
Q002	8-729-672-43	(AEP,UK)...TRANSISTOR 2SC2724
Q003	8-729-672-43	(AEP,UK)...TRANSISTOR 2SC2724

HST-700W

Ref.No.	Part No.	Description
Q004	8-729-672-43	(AEP,UK)...TRANSISTOR 2SC2724
Q081	8-769-200-30	TRANSISTOR 2SK107-3
Q091	8-729-245-83	(G-AEP)...TRANSISTOR 2SC2458
Q092	8-729-600-94	(G-AEP)...TRANSISTOR 2SK381-C
Q101	8-729-672-43	TRANSISTOR 2SC2724
Q291	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-900-83	TRANSISTOR DTC124XS
Q302	8-729-900-83	TRANSISTOR DTC124XS
Q303	8-729-900-83	TRANSISTOR DTC124XS
Q304	8-729-900-83	TRANSISTOR DTC124XS
Q305	8-729-900-83	TRANSISTOR DTC124XS
Q306	8-729-245-83	TRANSISTOR 2SC2458
Q307	8-729-245-83	TRANSISTOR 2SC2458
Q308	8-729-245-83	TRANSISTOR 2SC2458
Q309	8-729-245-83	TRANSISTOR 2SC2458
Q310	8-729-245-83	TRANSISTOR 2SC2458
Q311	8-729-245-83	TRANSISTOR 2SC2458
Q312	8-729-900-83	TRANSISTOR DTC124XS
Q313	8-729-900-83	TRANSISTOR DTC124XS
Q314	8-729-900-83	TRANSISTOR DTC124XS
Q315	8-729-900-83	TRANSISTOR DTC124XS
Q316	8-729-900-83	TRANSISTOR DTC124XS
Q317	8-729-900-83	TRANSISTOR DTC124XS
Q318	8-729-900-83	TRANSISTOR DTC124XS
Q319	8-729-900-83	TRANSISTOR DTC124XS
Q320	8-729-900-85	TRANSISTOR DTC144WS
Q321	8-729-900-83	TRANSISTOR DTC124XS
Q322	8-729-900-83	TRANSISTOR DTC124XS
Q323	8-729-900-83	TRANSISTOR DTC124XS
Q348	8-729-245-83	TRANSISTOR 2SC2458
Q349	8-729-245-83	TRANSISTOR 2SC2458
Q351	8-729-245-83	TRANSISTOR 2SC2458
Q352	8-729-245-83	TRANSISTOR 2SC2458
Q353	8-729-245-83	TRANSISTOR 2SC2458
Q354	8-729-245-83	TRANSISTOR 2SC2458
Q355	8-729-245-83	TRANSISTOR 2SC2458
Q356	8-729-245-83	TRANSISTOR 2SC2458
Q357	8-729-245-83	TRANSISTOR 2SC2458
Q358	8-729-245-83	TRANSISTOR 2SC2458
Q361	8-729-100-13	TRANSISTOR 2SC2001
Q362	8-729-658-32	TRANSISTOR 2SC1583
Q371	8-729-117-54	TRANSISTOR 2SA1175
Q372	8-729-117-54	TRANSISTOR 2SA1175
Q391	8-729-177-43	TRANSISTOR 2SD774
Q392	8-729-100-13	TRANSISTOR 2SC2001
Q393	8-729-177-43	TRANSISTOR 2SD774
Q394	8-729-177-43	TRANSISTOR 2SD774
Q401	8-729-900-83	TRANSISTOR DTC124XS
Q402	8-729-900-83	TRANSISTOR DTC124XS
Q403	8-729-900-83	TRANSISTOR DTC124XS
Q404	8-729-900-83	TRANSISTOR DTC124XS
Q405	8-729-900-83	TRANSISTOR DTC124XS
Q406	8-729-900-83	TRANSISTOR DTC124XS
Q407	8-729-900-83	TRANSISTOR DTC124XS
Q408	8-729-900-83	TRANSISTOR DTC124XS
Q409	8-729-900-83	TRANSISTOR DTC124XS
Q410	8-729-900-83	TRANSISTOR DTC124XS
Q411	8-729-900-83	TRANSISTOR DTC124XS
Q412	8-729-900-83	TRANSISTOR DTC124XS
Q413	8-729-900-83	TRANSISTOR DTC124XS
Q414	8-729-900-83	TRANSISTOR DTC124XS
Q415	8-729-900-83	TRANSISTOR DTC124XS
Q458	8-729-245-83	TRANSISTOR 2SC2458
Q461	8-729-100-13	TRANSISTOR 2SC2001
Q501	8-729-245-83	TRANSISTOR 2SC2458
Q502	8-729-245-83	TRANSISTOR 2SC2458
Q503	8-729-245-83	TRANSISTOR 2SC2458
Q601	8-729-245-83	TRANSISTOR 2SC2458
Q602	8-729-117-54	TRANSISTOR 2SA1175
Q901	8-729-201-78	TRANSISTOR 2SD1406
Q902	8-729-201-78	TRANSISTOR 2SD1406
Q903	8-729-201-78	TRANSISTOR 2SD1406
Q904	8-729-245-83	TRANSISTOR 2SC2458
Q905	8-729-117-54	TRANSISTOR 2SA1175
Q906	8-729-245-83	TRANSISTOR 2SC2458
R001	1-247-893-00	(AEP,UK)...CARBON 390K 5% 1/6W
R001	1-247-819-00	(G-AEP)....CARBON 330 5% 1/6W
R002	1-247-843-00	(AEP,UK)...CARBON 3.3K 5% 1/6W
R003	1-247-799-00	(AEP,UK)...CARBON 47 5% 1/6W
R004	1-247-897-00	(AEP,UK)...CARBON 560K 5% 1/6W
R005	1-247-819-00	(AEP,UK)...CARBON 330 5% 1/6W
R006	1-247-831-00	(AEP,UK)...CARBON 1K 5% 1/6W
R007	1-247-883-00	(AEP,UK)...CARBON 150K 5% 1/6W
R008	1-247-835-00	(AEP,UK)...CARBON 1.5K 5% 1/6W
R009	1-247-841-00	(AEP,UK)...CARBON 2.7K 5% 1/6W
R010	1-247-895-00	(AEP,UK)...CARBON 470K 5% 1/6W
R011	1-247-879-00	(AEP,UK)...CARBON 100K 5% 1/6W
R051	1-247-851-00	CARBON 6.8K 5% 1/6W
R081	1-247-827-00	CARBON 680 5% 1/6W
R094	1-247-831-00	(G-AEP)....CARBON 1K 5% 1/6W
R095	1-247-821-00	(G-AEP)....CARBON 390 5% 1/6W
R101	1-247-887-00	CARBON 220K 5% 1/6W
R102	1-247-819-00	CARBON 330 5% 1/6W
R103	1-247-851-00	CARBON 6.8K 5% 1/6W
R105	1-247-855-00	CARBON 10K 5% 1/6W
R106	1-247-875-00	CARBON 68K 5% 1/6W
R112	1-247-825-00	CARBON 560 5% 1/6W
R119	1-247-847-00	CARBON 4.7K 5% 1/6W
R121	1-247-795-00	(G-AEP)...CARBON 33 5% 1/6W
R202	1-247-855-00	CARBON 10K 5% 1/6W
R203	1-247-863-00	CARBON 22K 5% 1/6W
R204	1-247-855-00	CARBON 10K 5% 1/6W
R206	1-247-831-00	CARBON 1K 5% 1/6W
R208	1-247-871-00	CARBON 47K 5% 1/6W
R209	1-247-875-00	CARBON 68K 5% 1/6W
R210	1-247-875-00	CARBON 68K 5% 1/6W
R211	1-247-867-00	CARBON 33K 5% 1/6W
R212	1-247-847-00	CARBON 4.7K 5% 1/6W
R213	1-247-835-00	CARBON 1.5K 5% 1/6W
R214	1-247-835-00	CARBON 1.5K 5% 1/6W

Ref.No.	Part No.	Description			
R215	1-247-851-00	CARBON	6.8K	5%	1/6W
R216	1-247-851-00	CARBON	6.8K	5%	1/6W
R221	1-247-825-00	CARBON	560	5%	1/6W
R222	1-247-807-00	CARBON	100	5%	1/6W
R291	1-247-835-00	CARBON	1.5K	5%	1/6W
R292	1-247-845-00	CARBON	3.9K	5%	1/6W
R300	1-247-863-00	CARBON	22K	5%	1/6W
R301	1-247-897-00	CARBON	560K	5%	1/6W
R302	1-247-863-00	CARBON	22K	5%	1/6W
R303	1-247-897-00	CARBON	560K	5%	1/6W
R304	1-249-421-11	CARBON	2.2K	5%	1/6W
R305	1-249-421-11	CARBON	2.2K	5%	1/6W
R306	1-247-888-00	CARBON	240K	5%	1/6W
R307	1-249-421-11	CARBON	2.2K	5%	1/6W
R308	1-247-888-00	CARBON	240K	5%	1/6W
R309	1-247-855-00	CARBON	10K	5%	1/6W
R310	1-247-855-00	CARBON	10K	5%	1/6W
R311	1-247-897-00	CARBON	560K	5%	1/6W
R312	1-247-863-00	CARBON	22K	5%	1/6W
R313	1-247-897-00	CARBON	560K	5%	1/6W
R314	1-249-421-11	CARBON	2.2K	5%	1/6W
R315	1-249-421-11	CARBON	2.2K	5%	1/6W
R316	1-247-859-00	CARBON	15K	5%	1/6W
R317	1-247-855-00	CARBON	10K	5%	1/6W
R318	1-247-855-00	CARBON	10K	5%	1/6W
R319	1-247-847-00	CARBON	4.7K	5%	1/6W
R320	1-247-859-00	CARBON	15K	5%	1/6W
R321	1-247-833-00	CARBON	1.2K	5%	1/6W
R322	1-247-888-00	CARBON	240K	5%	1/6W
R323	1-247-888-00	CARBON	240K	5%	1/6W
R324	1-247-859-00	CARBON	15K	5%	1/6W
R325	1-247-807-00	CARBON	100	5%	1/6W
R326	1-247-850-00	CARBON	6.2K	5%	1/6W
R327	1-247-833-00	CARBON	1.2K	5%	1/6W
R328	1-247-825-00	CARBON	560	5%	1/6W
R329	1-247-897-00	CARBON	560K	5%	1/6W
R330	1-247-879-00	CARBON	100K	5%	1/6W
R331	1-247-871-00	CARBON	47K	5%	1/6W
R332	1-247-871-00	CARBON	47K	5%	1/6W
R333	1-247-849-00	CARBON	5.6K	5%	1/6W
R334	1-247-871-00	CARBON	47K	5%	1/6W
R335	1-247-879-00	CARBON	100K	5%	1/6W
R336	1-247-879-00	CARBON	100K	5%	1/6W
R337	1-249-421-11	CARBON	2.2K	5%	1/6W
R338	1-247-855-00	CARBON	10K	5%	1/6W
R339	1-247-867-00	CARBON	33K	5%	1/6W
R340	1-247-807-00	CARBON	100	5%	1/6W
R341	1-247-855-00	CARBON	10K	5%	1/6W
R343	1-247-855-00	CARBON	10K	5%	1/6W
R344	1-247-850-00	CARBON	6.2K	5%	1/6W
R345	1-247-849-00	CARBON	5.6K	5%	1/6W
R346	1-247-835-00	CARBON	1.5K	5%	1/6W
R347	1-247-859-00	CARBON	15K	5%	1/6W

Ref.No.	Part No.	Description			
R348	1-247-807-00	CARBON	100	5%	1/6W
R349	1-247-855-00	CARBON	10K	5%	1/6W
R351	1-247-855-00	CARBON	10K	5%	1/6W
R352	1-247-850-00	CARBON	6.2K	5%	1/6W
R353	1-247-849-00	CARBON	5.6K	5%	1/6W
R354	1-247-825-00	CARBON	560	5%	1/6W
R355	1-247-859-00	CARBON	15K	5%	1/6W
R356	1-247-863-00	CARBON	22K	5%	1/6W
R357	1-247-871-00	CARBON	47K	5%	1/6W
R358	1-247-825-00	CARBON	560	5%	1/6W
R359	1-247-847-00	CARBON	4.7K	5%	1/6W
R360	1-247-873-00	CARBON	56K	5%	1/6W
R361	1-247-873-00	CARBON	56K	5%	1/6W
R362	1-247-847-00	CARBON	4.7K	5%	1/6W
R363	1-247-853-00	CARBON	8.2K	5%	1/6W
R364	1-247-863-00	CARBON	22K	5%	1/6W
R365	1-247-863-00	CARBON	22K	5%	1/6W
R366	1-247-891-00	CARBON	330K	5%	1/6W
R367	1-247-855-00	CARBON	10K	5%	1/6W
R368	1-247-879-00	CARBON	100K	5%	1/6W
R369	1-247-855-00	CARBON	10K	5%	1/6W
R370	1-247-879-00	CARBON	100K	5%	1/6W
R371	1-247-825-00	CARBON	560	5%	1/6W
R372	1-247-825-00	CARBON	560	5%	1/6W
R373	1-247-863-00	CARBON	22K	5%	1/6W
R374	1-247-863-00	CARBON	22K	5%	1/6W
R375	1-247-863-00	CARBON	22K	5%	1/6W
R376	1-247-863-00	CARBON	22K	5%	1/6W
R377	1-247-863-00	CARBON	22K	5%	1/6W
R378	1-247-863-00	CARBON	22K	5%	1/6W
R379	1-247-855-00	CARBON	10K	5%	1/6W
R380	1-247-903-00	CARBON	1M	5%	1/6W
R381	1-247-903-00	CARBON	1M	5%	1/6W
R382	1-247-903-00	CARBON	1M	5%	1/6W
R383	1-247-871-00	CARBON	47K	5%	1/6W
R384	1-247-879-00	CARBON	100K	5%	1/6W
R385	1-247-847-00	CARBON	4.7K	5%	1/6W
R386	1-247-847-00	CARBON	4.7K	5%	1/6W
R387	1-247-879-00	CARBON	100K	5%	1/6W
R388	1-247-879-00	CARBON	100K	5%	1/6W
R389	1-247-873-00	CARBON	56K	5%	1/6W
R390	1-247-873-00	CARBON	56K	5%	1/6W
R391	1-247-863-00	CARBON	22K	5%	1/6W
R392	1-247-843-00	CARBON	3.3K	5%	1/6W
R393	1-247-837-00	CARBON	1.8K	5%	1/6W
R394	1-247-843-00	CARBON	3.3K	5%	1/6W
R395	1-247-863-00	CARBON	22K	5%	1/6W
R396	1-247-833-00	CARBON	1.2K	5%	1/6W
R397	1-247-871-00	CARBON	47K	5%	1/6W
R398	1-247-855-00	CARBON	10K	5%	1/6W
R399	1-247-863-00	CARBON	22K	5%	1/6W
R400	1-247-863-00	CARBON	22K	5%	1/6W
R401	1-247-897-00	CARBON	560K	5%	1/6W
R402	1-247-863-00	CARBON	22K	5%	1/6W
R403	1-247-897-00	CARBON	560K	5%	1/6W
R404	1-249-421-11	CARBON	2.2K	5%	1/6W

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Ref.No.	Part No.	Description			
R405	1-249-421-11	CARBON	2.2K	5%	1/6W
R406	1-247-888-00	CARBON	240K	5%	1/6W
R407	1-249-421-11	CARBON	2.2K	5%	1/6W
R408	1-247-888-00	CARBON	240K	5%	1/6W
R409	1-247-855-00	CARBON	10K	5%	1/6W
R410	1-247-855-00	CARBON	10K	5%	1/6W
R411	1-247-897-00	CARBON	560K	5%	1/6W
R412	1-247-863-00	CARBON	22K	5%	1/6W
R413	1-247-897-00	CARBON	560K	5%	1/6W
R414	1-249-421-11	CARBON	2.2K	5%	1/6W
R415	1-249-421-11	CARBON	2.2K	5%	1/6W
R416	1-247-859-00	CARBON	15K	5%	1/6W
R417	1-247-855-00	CARBON	10K	5%	1/6W
R418	1-247-855-00	CARBON	10K	5%	1/6W
R419	1-247-847-00	CARBON	4.7K	5%	1/6W
R420	1-247-859-00	CARBON	15K	5%	1/6W
R421	1-247-833-00	CARBON	1.2K	5%	1/6W
R422	1-247-888-00	CARBON	240K	5%	1/6W
R423	1-247-888-00	CARBON	240K	5%	1/6W
R424	1-247-859-00	CARBON	15K	5%	1/6W
R425	1-247-807-00	CARBON	100	5%	1/6W
R426	1-247-850-00	CARBON	6.2K	5%	1/6W
R427	1-247-833-00	CARBON	1.2K	5%	1/6W
R428	1-247-825-00	CARBON	560	5%	1/6W
R429	1-247-897-00	CARBON	560K	5%	1/6W
R430	1-247-879-00	CARBON	100K	5%	1/6W
R431	1-247-871-00	CARBON	47K	5%	1/6W
R432	1-247-871-00	CARBON	47K	5%	1/6W
R433	1-247-849-00	CARBON	5.6K	5%	1/6W
R434	1-247-871-00	CARBON	47K	5%	1/6W
R435	1-247-879-00	CARBON	100K	5%	1/6W
R436	1-247-879-00	CARBON	100K	5%	1/6W
R437	1-249-421-11	CARBON	2.2K	5%	1/6W
R438	1-247-855-00	CARBON	10K	5%	1/6W
R439	1-247-867-00	CARBON	33K	5%	1/6W
R441	1-247-855-00	CARBON	10K	5%	1/6W
R443	1-247-855-00	CARBON	10K	5%	1/6W
R444	1-247-850-00	CARBON	6.2K	5%	1/6W
R445	1-247-849-00	CARBON	5.6K	5%	1/6W
R446	1-247-835-00	CARBON	1.5K	5%	1/6W
R447	1-247-859-00	CARBON	15K	5%	1/6W
R448	1-247-807-00	CARBON	100	5%	1/6W
R449	1-247-855-00	CARBON	10K	5%	1/6W
R451	1-247-855-00	CARBON	10K	5%	1/6W
R452	1-247-850-00	CARBON	6.2K	5%	1/6W
R453	1-247-849-00	CARBON	5.6K	5%	1/6W
R454	1-247-825-00	CARBON	560	5%	1/6W
R455	1-247-859-00	CARBON	15K	5%	1/6W
R456	1-247-863-00	CARBON	22K	5%	1/6W
R457	1-247-871-00	CARBON	47K	5%	1/6W
R458	1-247-825-00	CARBON	560	5%	1/6W
R459	1-247-847-00	CARBON	4.7K	5%	1/6W
R460	1-247-873-00	CARBON	56K	5%	1/6W
R461	1-247-873-00	CARBON	56K	5%	1/6W
R463	1-247-853-00	CARBON	8.2K	5%	1/6W
R464	1-247-863-00	CARBON	22K	5%	1/6W
R465	1-247-863-00	CARBON	22K	5%	1/6W
R466	1-247-891-00	CARBON	330K	5%	1/6W
R467	1-247-855-00	CARBON	10K	5%	1/6W
R468	1-247-879-00	CARBON	100K	5%	1/6W
R469	1-247-855-00	CARBON	10K	5%	1/6W
R470	1-247-879-00	CARBON	100K	5%	1/6W
R471	1-247-903-00	CARBON	1M	5%	1/6W
R472	1-247-903-00	CARBON	1M	5%	1/6W
R473	1-247-847-00	CARBON	4.7K	5%	1/6W
R474	1-247-871-00	CARBON	47K	5%	1/6W
R475	1-247-871-00	CARBON	47K	5%	1/6W
R476	1-247-871-00	CARBON	47K	5%	1/6W
R478	1-247-847-00	CARBON	4.7K	5%	1/6W
R479	1-249-421-11	CARBON	2.2K	5%	1/6W
R480	1-249-421-11	CARBON	2.2K	5%	1/6W
R481	1-249-421-11	CARBON	2.2K	5%	1/6W
R482	1-247-871-00	CARBON	47K	5%	1/6W
R483	1-249-421-11	CARBON	2.2K	5%	1/6W
R484	1-247-879-00	CARBON	100K	5%	1/6W
R485	1-247-879-00	CARBON	100K	5%	1/6W
R486	1-247-879-00	CARBON	100K	5%	1/6W
R487	1-247-879-00	CARBON	100K	5%	1/6W
R488	1-247-879-00	CARBON	100K	5%	1/6W
R489	1-249-421-11	CARBON	2.2K	5%	1/6W
R491	1-247-879-00	CARBON	100K	5%	1/6W
R492	1-247-879-00	CARBON	100K	5%	1/6W
R493	1-249-421-11	CARBON	2.2K	5%	1/6W
R494	1-247-855-00	CARBON	10K	5%	1/6W
R495	1-247-879-00	CARBON	100K	5%	1/6W
R496	1-247-879-00	CARBON	100K	5%	1/6W
R497	1-247-879-00	CARBON	100K	5%	1/6W
R498	1-247-879-00	CARBON	100K	5%	1/6W
R499	1-247-879-00	CARBON	100K	5%	1/6W
R501	1-247-843-00	CARBON	3.3K	5%	1/6W
R502	1-247-869-00	CARBON	39K	5%	1/6W
R503	1-247-869-00	CARBON	39K	5%	1/6W
R504	1-247-869-00	CARBON	39K	5%	1/6W
R505	1-247-867-00	CARBON	33K	5%	1/6W
R506	1-247-879-00	CARBON	100K	5%	1/6W
R507	1-247-847-00	CARBON	4.7K	5%	1/6W
R508	1-249-421-11	CARBON	2.2K	5%	1/6W
R510	1-247-873-00	CARBON	56K	5%	1/6W
R511	1-247-857-00	CARBON	12K	5%	1/6W
R512	1-247-877-00	CARBON	82K	5%	1/6W
R551	1-249-421-11	CARBON	2.2K	5%	1/6W
R552	1-247-865-00	CARBON	27K	5%	1/6W
R553	1-247-847-00	CARBON	4.7K	5%	1/6W
R554	1-247-855-00	CARBON	10K	5%	1/6W
R555	1-247-855-00	CARBON	10K	5%	1/6W
R556	1-247-855-00	CARBON	10K	5%	1/6W
R557	1-247-855-00	CARBON	10K	5%	1/6W

Ref.No.	Part No.	Description				
R558	1-247-855-00	CARBON	10K	5%	1/6W	
R559	1-247-879-00	CARBON	100K	5%	1/6W	
R560	1-247-879-00	CARBON	100K	5%	1/6W	
R561	1-247-879-00	CARBON	100K	5%	1/6W	
R562	1-247-879-00	CARBON	100K	5%	1/6W	
R563	1-247-879-00	CARBON	100K	5%	1/6W	
R564	1-247-855-00	CARBON	10K	5%	1/6W	
R565	1-247-861-00	CARBON	18K	5%	1/6W	
R567	1-247-877-00	CARBON	82K	5%	1/6W	
R568	1-247-847-00	CARBON	4.7K	5%	1/6W	
R569	1-247-831-00	CARBON	1K	5%	1/6W	
R570	1-247-855-00	CARBON	10K	5%	1/6W	
R571	1-247-107-00	CARBON	100	5%	1/4W	
R572	1-247-107-00	CARBON	100	5%	1/4W	
R573	1-247-107-00	CARBON	100	5%	1/4W	
R574	1-247-107-00	CARBON	100	5%	1/4W	
R575	1-247-107-00	CARBON	100	5%	1/4W	
R576	1-247-807-00	CARBON	100	5%	1/6W	
R601	1-247-843-00	CARBON	3.3K	5%	1/6W	
R602	1-247-869-00	CARBON	39K	5%	1/6W	
R603	1-247-869-00	CARBON	39K	5%	1/6W	
R604	1-247-869-00	CARBON	39K	5%	1/6W	
R605	1-247-867-00	CARBON	33K	5%	1/6W	
R606	1-247-879-00	CARBON	100K	5%	1/6W	
R607	1-247-847-00	CARBON	4.7K	5%	1/6W	
R608	1-249-421-11	CARBON	2.2K	5%	1/6W	
R610	1-247-873-00	CARBON	56K	5%	1/6W	
R611	1-247-857-00	CARBON	12K	5%	1/6W	
R612	1-247-877-00	CARBON	82K	5%	1/6W	
R650	1-247-871-00	CARBON	47K	5%	1/6W	
R651	1-247-831-00	CARBON	1K	5%	1/6W	
R652	1-247-831-00	CARBON	1K	5%	1/6W	
R653	1-247-831-00	CARBON	1K	5%	1/6W	
R654	1-247-807-00	CARBON	100	5%	1/6W	
R655	1-247-871-00	CARBON	47K	5%	1/6W	
R656	1-247-887-00	CARBON	220K	5%	1/6W	
R657	1-247-831-00	CARBON	1K	5%	1/6W	
R658	1-247-879-00	CARBON	100K	5%	1/6W	
R659	1-247-887-00	CARBON	220K	5%	1/6W	
R660	1-247-127-00	CARBON	680	5%	1/4W	
R661	1-247-127-00	CARBON	680	5%	1/4W	
R662	1-247-865-00	CARBON	27K	5%	1/6W	
R663	1-247-847-00	CARBON	4.7K	5%	1/6W	
R664	1-247-847-00	CARBON	4.7K	5%	1/6W	
R665	1-247-855-00	CARBON	10K	5%	1/6W	
R666	1-247-831-00	CARBON	1K	5%	1/6W	
R667	1-247-879-00	CARBON	100K	5%	1/6W	
R668	1-247-871-00	CARBON	47K	5%	1/6W	
R669	1-247-843-00	CARBON	3.3K	5%	1/6W	
R701	1-247-831-00	CARBON	1K	5%	1/6W	
R702	1-247-873-00	CARBON	56K	5%	1/6W	
R703	1-247-831-00	CARBON	1K	5%	1/6W	
R704	1-247-873-00	CARBON	56K	5%	1/6W	
R705	1-247-192-00	CARBON	10	5%	1/2W	F
R706	1-247-184-00	CARBON	2.2	5%	1/2W	F
R708	1-247-831-00	CARBON	1K	5%	1/6W	
R709	1-247-188-00	(G-AEP)...CARBON	4.7	5%	1/2W	F
R750	1-247-228-00	CARBON	330	5%	1/2W	F
R801	1-247-831-00	CARBON	1K	5%	1/6W	
R802	1-247-873-00	CARBON	56K	5%	1/6W	
R803	1-247-831-00	CARBON	1K	5%	1/6W	
R804	1-247-873-00	CARBON	56K	5%	1/6W	
R805	1-247-192-00	CARBON	10	5%	1/2W	F
R806	1-247-184-00	CARBON	2.2	5%	1/2W	F
R808	1-247-831-00	CARBON	1K	5%	1/6W	
R809	1-247-188-00	(G-AEP)...CARBON	4.7	5%	1/2W	F
R850	1-247-228-00	CARBON	330	5%	1/2W	F
R901	⚠1-217-469-00	FUSIBLE	1	5%	1W	F
R902	⚠1-217-473-00	FUSIBLE	2.2	5%	1W	F
R903	1-247-851-00	(G-AEP)...CARBON	6.8K	5%	1/6W	
R904	1-247-851-00	CARBON	6.8K	5%	1/6W	
R905	1-247-851-00	CARBON	6.8K	5%	1/6W	
R906	1-247-817-00	(AEP,UK)...CARBON	270	5%	1/6W	
R906	1-247-855-00	(G-AEP)....CARBON	10K	5%	1/6W	
R907	1-247-855-00	CARBON	10K	5%	1/6W	
R908	1-247-855-00	CARBON	10K	5%	1/6W	
R909	1-247-107-00	CARBON	100	5%	1/4W	F
R910	1-247-240-00	CARBON	1K	5%	1/2W	
R911	1-247-240-00	CARBON	1K	5%	1/2W	
R912	1-247-248-00	CARBON	2.2K	5%	1/2W	
R913	1-247-248-00	CARBON	2.2K	5%	1/2W	
R914	1-247-248-00	CARBON	2.2K	5%	1/2W	
R915	1-247-248-00	CARBON	2.2K	5%	1/2W	
R916	1-247-107-00	CARBON	100	5%	1/4W	F
R917	1-247-855-00	CARBON	10K	5%	1/6W	
R918	1-247-885-00	CARBON	180K	5%	1/6W	
R919	1-247-873-00	CARBON	56K	5%	1/6W	
R920	1-247-887-00	CARBON	220K	5%	1/6W	
R950	1-247-855-00	CARBON	10K	5%	1/6W	
R951	1-247-855-00	CARBON	10K	5%	1/6W	
R952	1-249-421-11	CARBON	2.2K	5%	1/6W	
R953	1-249-421-11	CARBON	2.2K	5%	1/6W	
R954	1-247-859-00	CARBON	15K	5%	1/6W	
R955	1-247-847-00	CARBON	4.7K	5%	1/6W	
R956	1-247-879-00	CARBON	100K	5%	1/6W	
R957	1-247-871-00	CARBON	47K	5%	1/6W	
R958	1-247-847-00	CARBON	4.7K	5%	1/6W	
R959	1-247-859-00	CARBON	15K	5%	1/6W	
R960	1-247-871-00	CARBON	47K	5%	1/6W	
R961	1-247-871-00	CARBON	47K	5%	1/6W	
R962	1-247-855-00	CARBON	10K	5%	1/6W	
R963	1-247-879-00	CARBON	100K	5%	1/6W	
R964	1-247-879-00	CARBON	100K	5%	1/6W	
R965	1-249-421-11	CARBON	2.2K	5%	1/6W	
R966	1-247-879-00	CARBON	100K	5%	1/6W	
R967	1-247-127-00	CARBON	680	5%	1/4W	
R968	1-247-127-00	CARBON	680	5%	1/4W	
R969	1-247-863-00	CARBON	22K	5%	1/6W	
R970	1-247-871-00	CARBON	47K	5%	1/6W	
R971	1-247-897-00	CARBON	560K	5%	1/6W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part numer specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref.No.	Part No.	Description
R972	1-247-783-00	CARBON 10 5% 1/6W
R974	1-247-833-00	CARBON 1.2K 5% 1/6W
R975	1-247-833-00	CARBON 1.2K 5% 1/6W
R977	1-247-871-00	CARBON 47K 5% 1/6W
R978	1-247-879-00	CARBON 100K 5% 1/6W
R979	1-247-879-00	CARBON 100K 5% 1/6W
R980 ⚠	1-217-393-00	FUSIBLE 33 5% 1/4W F
RV091	1-230-504-11	(G-AEP)....RES, ADJ, CARBON 220
RV092	1-230-504-11	(G-AEP)....RES, ADJ, CARBON 220
RV093	1-151-491-11	(G-AEP)....CAP, VAR, POLYETHYLENE
RV301	1-226-232-00	RES, ADJ, CARBON 500, DECK A PB LEVEL(L)
RV302	1-226-232-00	RES, ADJ, CARBON 500, DECK B PB LEVEL(L)
RV303	1-226-238-00	RES, ADJ, CARBON 50K, REC LEVEL (L)
RV304	1-226-239-00	RES, ADJ, CARBON 100K, REC BIAS (L)
RV305	1-226-236-00	RES, ADJ, CARBON 10K, DECK A TAPE SPEED
RV306	1-226-236-00	RES, ADJ, CARBON 10K, DECK A TAPE SPEED
RV307	1-226-236-00	RES, ADJ, CARBON 10K, DECK B TAPE SPEED
RV308	1-226-236-00	RES, ADJ, CARBON 10K, DECK B TAPE SPEED
RV401	1-226-232-00	RES, ADJ, CARBON 500, DECK A PB LEVEL(R)
RV402	1-226-232-00	RES, ADJ, CARBON 500, DECK B PB LEVEL(R)
RV403	1-226-238-00	RES, ADJ, CARBON 50K, REC LEVEL (R)
RV404	1-226-239-00	RES, ADJ, CARBON 100K, REC BIAS (R)
RV501	1-230-362-11	RES, VAR, SLIDE 250K/250K, 63Hz
RV502	1-230-362-11	RES, VAR, SLIDE 250K/250K, 250Hz
RV503	1-230-362-11	RES, VAR, SLIDE 250K/250K, 1kHz
RV504	1-230-362-11	RES, VAR, SLIDE 250K/250K, 4kHz
RV505	1-230-362-11	RES, VAR, SLIDE 250K/250K, 12kHz
RV506	1-230-708-11	RES, VAR, SLIDE 50K/50K, VOLUME
RV507	1-230-346-11	RES, VAR, SLIDE 250K, BALANCE
RV508	1-230-707-11	RES, VAR, SLIDE 50K, MIC LEVEL
S1	1-554-336-00	SWITCH, SLIDE, REC/PB
S2	1-570-189-11	SWITCH, PUSH (3 KEY), REC MUTE/DOLBY NR/DUBBING SPEED
S3	1-552-804-00	SWITCH, LEAF, TAPE DUBBING
S4	1-552-804-00	SWITCH, LEAF, PHONO DUBBING
S5	1-552-819-00	SWITCH, SLIDE, ISS
S101	1-554-759-11	SWITCH, ROTARY SLIDE, BAND
S102	1-554-428-00	SWITCH, PUSH (1 KEY), STEREO/MUTING
S301	1-570-303-11	SWITCH, LEAF (C), DECK A MOTOR
S302	1-570-304-11	SWITCH, LEAF (D), DECK A FWD
S303	1-570-302-11	SWITCH, LEAF (B), DECK A FF/REW
S304	1-570-305-11	SWITCH, LEAF (E), DECK A TAPE TYPE(II/IV)
S311	1-570-303-11	SWITCH, LEAF (C), DECK B MOTOR

Ref.No.	Part No.	Description
S312	1-570-304-11	SWITCH, LEAF(D), DECK B FWD
S313	1-570-301-11	SWITCH, LEAF(A), DECK B REC
S314	1-570-302-11	SWITCH, LEAF(B), DECK B FF/REW
S315	1-570-305-11	SWITCH, LEAF(E), DECK B TAPE TYPE(II/IV)
S316	1-570-305-11	SWITCH, LEAF(E), DECK B TAPE TYPE(IV)
S501	1-552-539-00	SWITCH, KEY BOARD, TAPE
S502	1-552-539-00	SWITCH, KEY BOARD, CD/AUX
S503	1-552-539-00	SWITCH, KEY BOARD, TUNER
S504	1-552-539-00	SWITCH, KEY BOARD, PHONO
S901 ⚠	1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY), POWER
T301	1-433-295-11	TRANSFORMER, BIAS OSCILLATION
T901 ⚠	1-448-124-11	TRANSFORMER, POWER
TB001	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P
TB091	1-536-708-00	(AEP,UK)...TERMINAL BOARD, PUSH 4P, ANTENNA
TB091	1-536-707-00	(G-AEP)....TERMINAL BOARD, PUSH 2P, ANTENNA
TB701	*1-535-116-00	TERMINAL
TB711	1-536-705-00	TERMINAL BOARD (SP), SPEAKER
TB901	*1-535-139-00	(UK)...BASE POST 19MM (10MM PITCH) 2P
TB902	*1-535-140-00	BASE POST 19MM (10MM PITCH) 3P
TB903	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part numer specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-951-682-11

Sony Corporation

85D0976-1
Printed in Japan

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2815

PS-LX700P

SERVICE MANUAL

US Model
AEP Model
UK Model
E Model

This set is the turntable system section in XO-700 or XO-700W.

SPECIFICATIONS

Turntable

Platter	30 cm (12 in), aluminum-alloy diecast
Motor	DC servo motor
Drive system	Belt drive
Speed	$33\frac{1}{3}$ rpm, 45 rpm
Wow and flutter	0.045% (WRMS)*, ±0.06% (DIN)
Signal-to-noise ratio	70 dB (DIN-B)
Automatic system	Return, reject, lead in, repeat, record-size select

Tonearm

Type	Dynamically balanced
Pivot-to-stylus length	200 mm ($7\frac{7}{8}$ in.)
Overall arm length	235 mm ($9\frac{3}{8}$ in.)
Overhang	18 mm ($\frac{23}{32}$ in.)
Tracking error	+3°30', −1°

Cartridge

Type	Moving magnet type
Frequency response	20 Hz to 20 kHz
Stylus	Sony ND-142G (0.6 mil diamond)

General

Dimensions	Approx. 355 × 90 × 330 mm (w/h/d) (14 × $3\frac{1}{2}$ × 13 inches) Incl. projecting parts and controls
Weight	Approx. 2.4 kg (5 lb 5 oz) net

FEATURES

- Fully automatic system.
- Auto-record-size selection system which selects the record size automatically using a photo sensor.
- The low-mass tonearm and cartridge allow the stylus to track with greater accuracy.
- The turntable has resilient feet that isolate the mechanism from external shock and vibration.

MICROFILM

STEREO TURNTABLE SYSTEM

SONY®

AUD

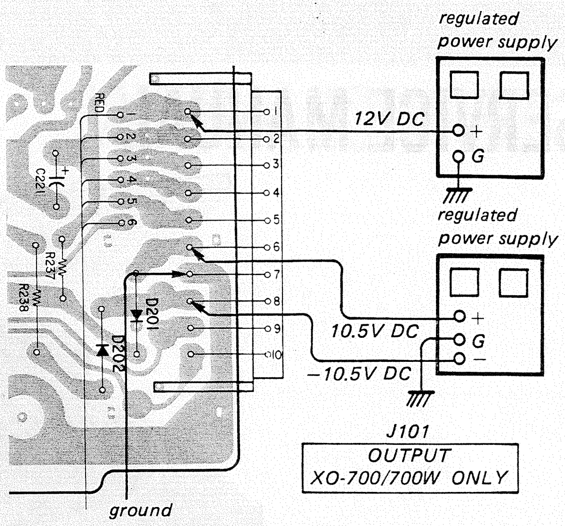
2815

REPAIRING PRECAUTION

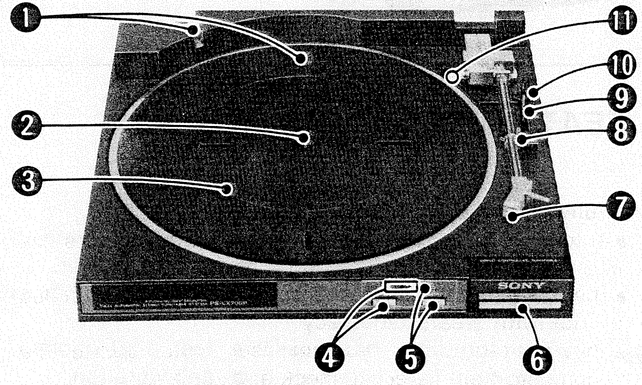
[To apply B+ voltage]

The power of this unit is fed from HST-700W. Because of this, connect the regulated power supply as illustrated right when this unit alone operates.

[EQ AMP BOARD] (CONDUCTOR SIDE)


regulated power supply
RED
1
2
3
4
5
6
C221
R237
R238
D201
D202
1
2
3
4
5
6
7
8
9
10
12V DC
+
G
regulated power supply
10.5V DC
+
G
−
−10.5V DC
J101
OUTPUT
XO-700/700W ONLY
ground

PARTS IDENTIFICATION


❶
❷
❸
❹
❺
❻
❼
❽
❾
❿
⓫
SONY

❶ **Auto-record-size selection holes and lamp**

❷ **Center spindle**

❸ **Rubber mat**

❹ **SPEED button and indicator**

❺ **REPEAT button and indicator**

❻ **START/STOP button**

❼ **Cartridge**

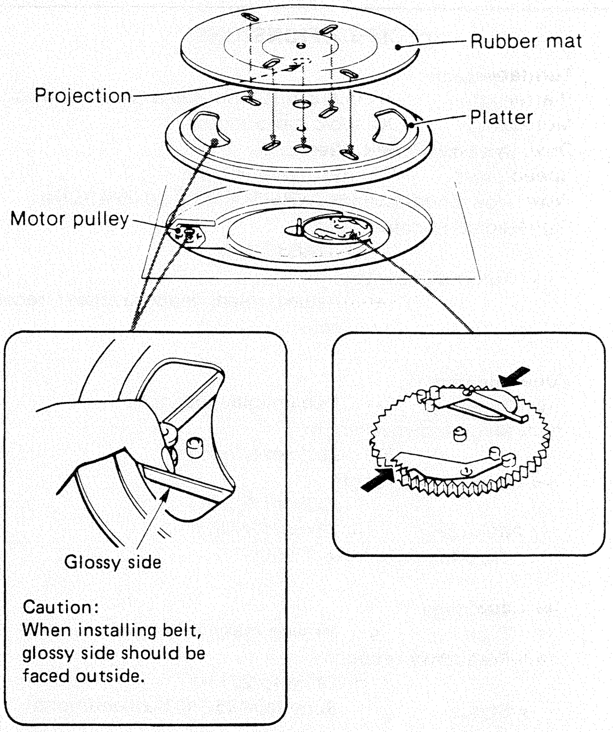
❽ **Arm rest**

❾ **Cueing lever (▼ ▼)**

❿ **ANTI-SKATING compensator**
Normally, set it at the center position. If the stylus is driven inward when the tone arm is lowered to the lead-in groove, turn the ANTI-SKATING compensator to ⊕. If the stylus is driven outward, turn the ANTI-SKATING compensator to ⊖.

⓫ **Tonearm drop-point adjustment hole**

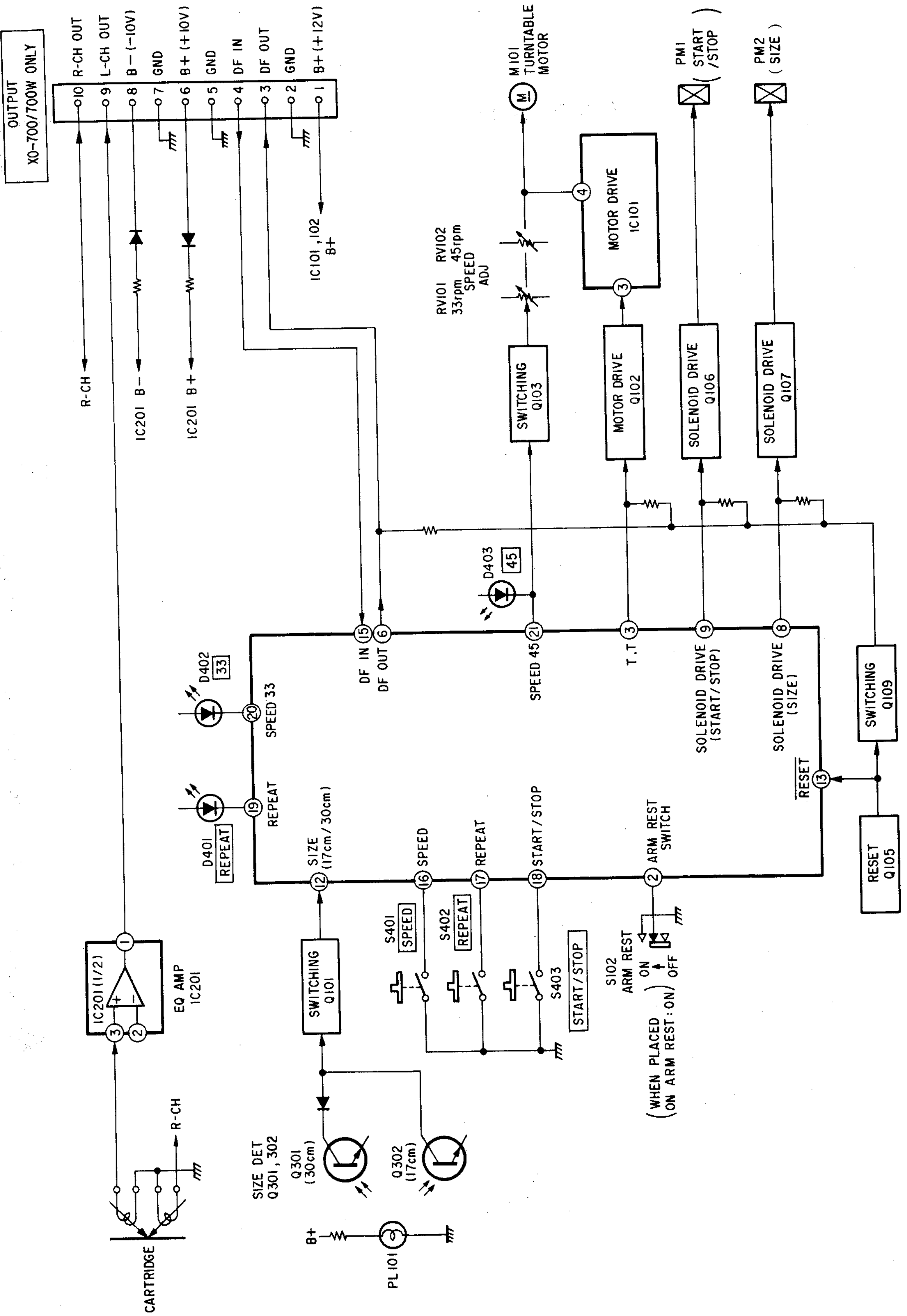
TURNTABLE ASSEMBLY


Rubber mat
Projection
Platter
Motor pulley
Glossy side

Caution:
When installing belt, glossy side should be faced outside.

1 Keep the metallic parts indicated by the arrows in the illustration inside the large white gear.
2 Set the platter on the motor board while holding the belt as shown in the illustration and hook the belt on the motor pulley.
3 Place the rubber mat on the platter so that the holes for auto-record-size selection on the rubber mat and on the platter are matched correctly.

SECTION 1
BLOCK DIAGRAM


J101
OUTPUT
XO-700/700W ONLY
10 R-CH OUT
9 L-CH OUT
8 B−(−10V)
7 GND
6 B+(+10V)
5 GND
4 DF IN
3 DF OUT
2 GND
1 B+(+12V)
R-CH
IC201 B−
IC201 B+
IC101,102 B+
M101 TURNTABLE MOTOR
M
RV101 33rpm
RV102 45rpm
SPEED ADJ
MOTOR DRIVE IC101
MOTOR DRIVE Q102
SWITCHING Q103
SOLENOID DRIVE Q106
SOLENOID DRIVE Q107
PM1 (START/STOP)
PM2 (SIZE)
D403
45
D402
33
D401
REPEAT
15 DF IN
6 DF OUT
21 SPEED 45
3 T.T
9 SOLENOID DRIVE (START/STOP)
8 SOLENOID DRIVE (SIZE)
20 SPEED 33
19 REPEAT
13 RESET
12 SIZE (17cm/30cm)
16 SPEED
17 REPEAT
18 START/STOP
2 ARM REST SWITCH
SWITCHING Q109
RESET Q105
IC201(1/2)
EQ AMP IC201
SWITCHING Q101
S401 SPEED
S402 REPEAT
S403 START/STOP
S102 ARM REST
ON
OFF
(WHEN PLACED ON ARM REST: ON)
SIZE DET Q301,302
Q301 (30cm)
Q302 (17cm)
CARTRIDGE
R-CH
B+
PL101

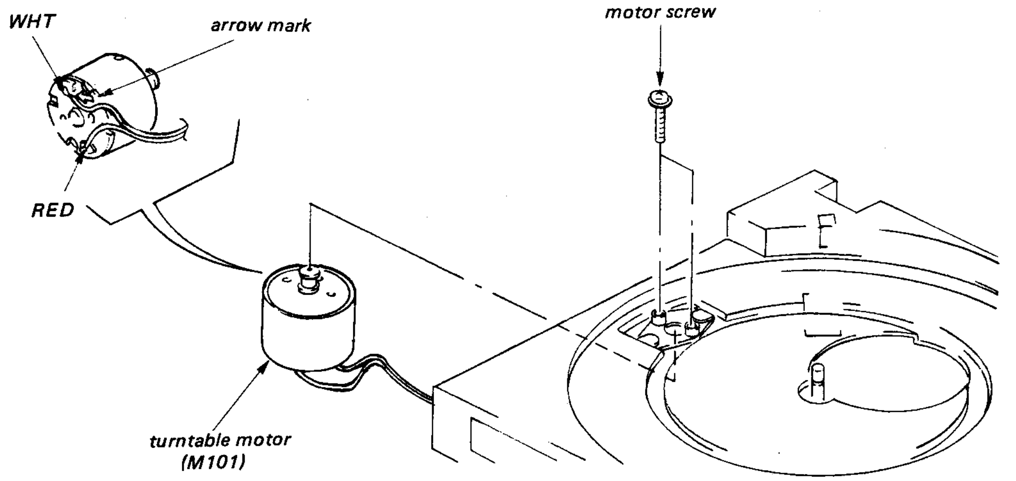
SECTION 2
DISASSEMBLY

Remove dust cover and turntable.

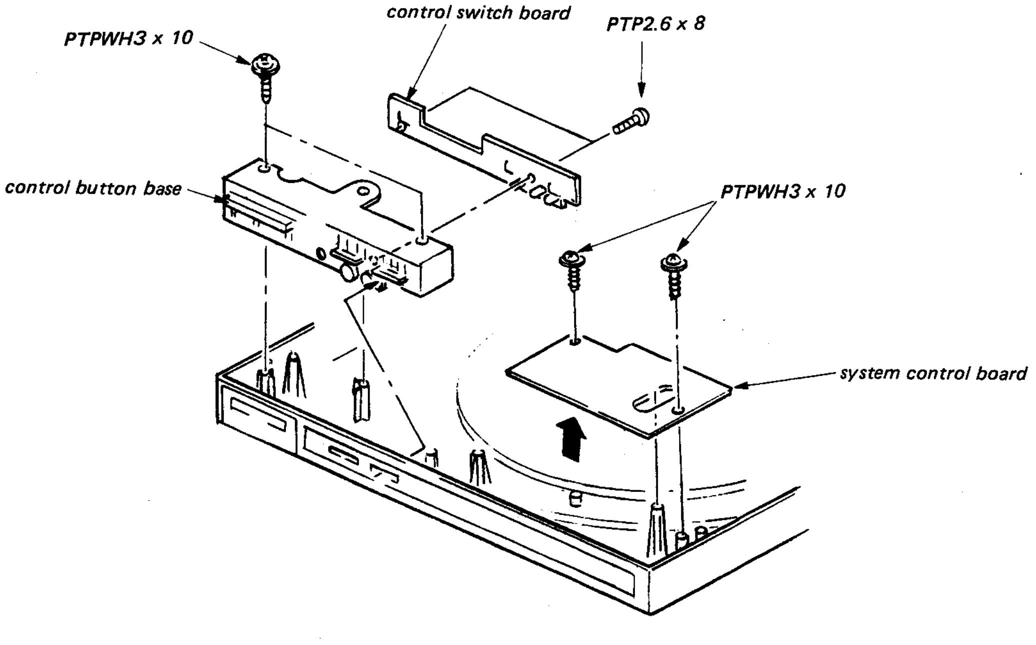
BOTTOM PLATE

Remove 5 screws (BVTP3 x 12) of bottom plate and 4 screws (BTP3 x 16) of insulator.

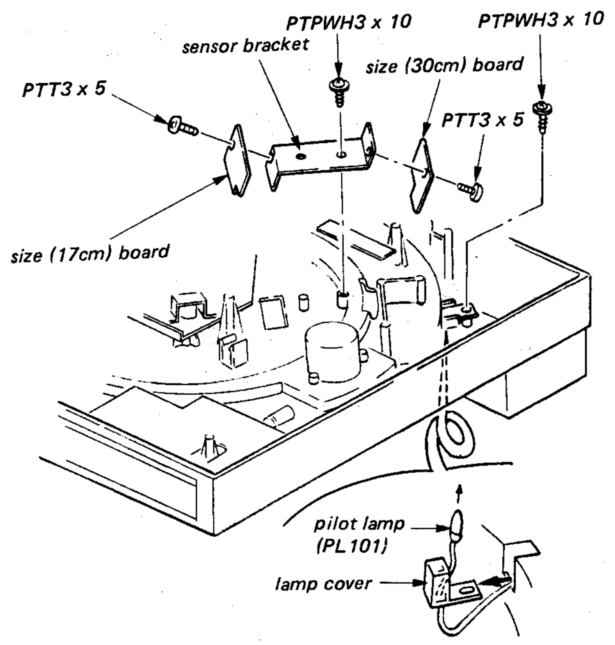
TURNTABLE MOTOR (M101)


WHT
arrow mark
RED
motor screw
turntable motor (M101)

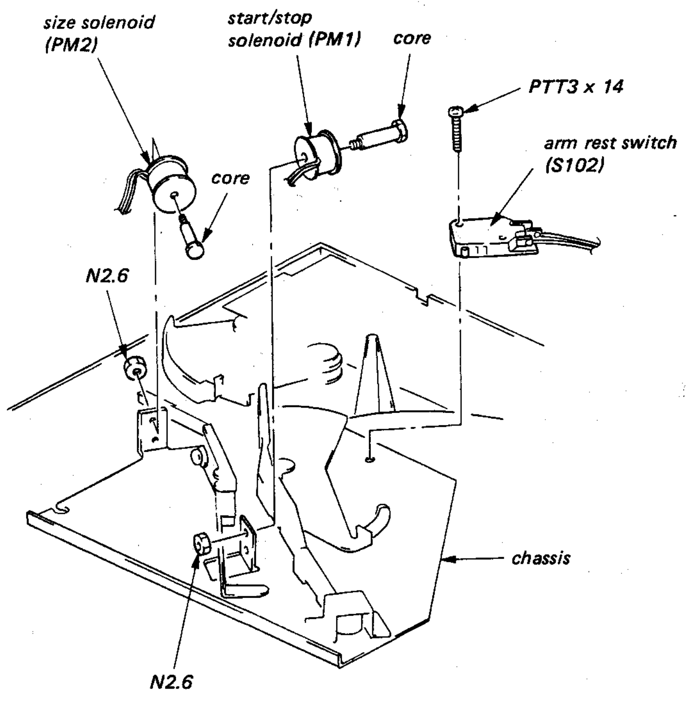
SYSTEM CONTROL BOARD AND CONTROL SWITCH BOARD


control switch board
PTPWH3 x 10
PTP2.6 x 8
control button base
PTPWH3 x 10
system control board

SIZE (30cm) BOARD, SIZE (17cm) BOARD AND PILOT LAMP (PL101)


PTPWH3 x 10
PTPWH3 x 10
sensor bracket
size (30cm) board
PTT3 x 5
PTT3 x 5
size (17cm) board
pilot lamp
(PL101)
lamp cover

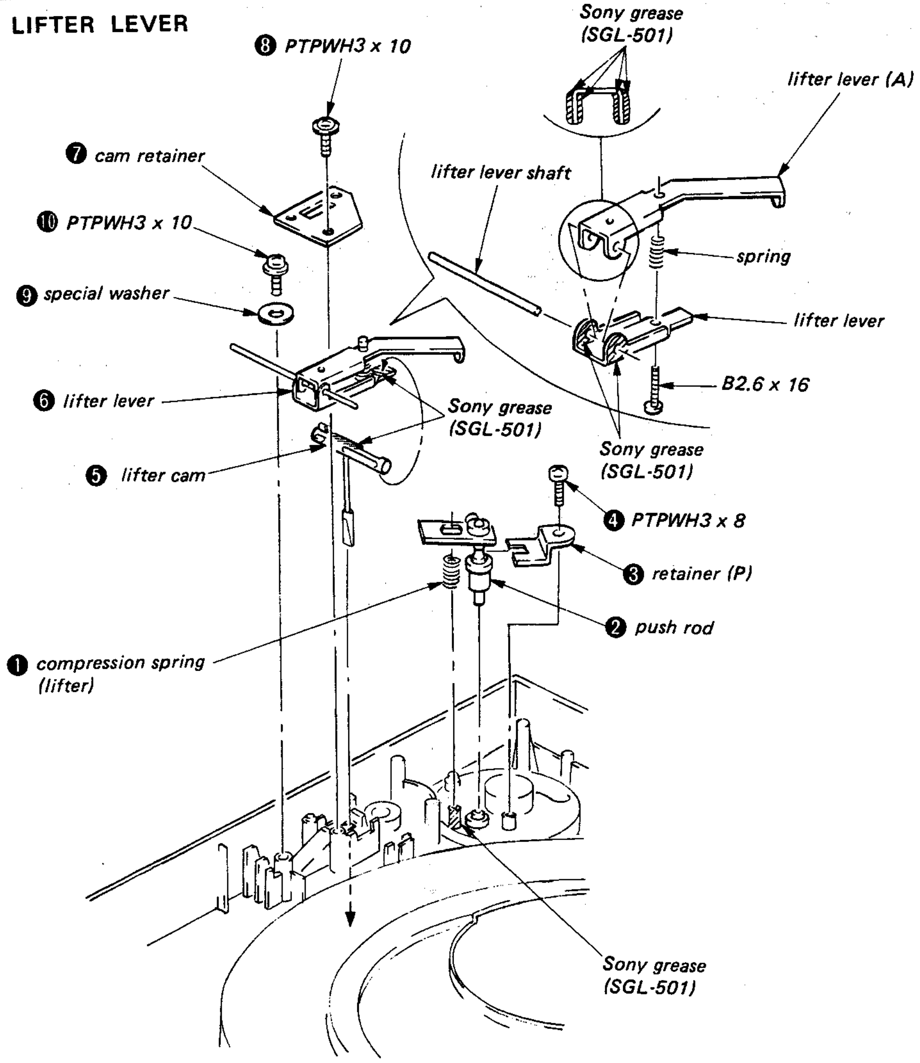
START/STOP, SIZE SOLENOID (PM1, 2) AND ARM REST SWITCH (S102)


size solenoid
(PM2)
start/stop
solenoid (PM1)
core
PTT3 x 14
arm rest switch
(S102)
core
N2.6
chassis
N2.6

SECTION 3
ASSEMBLY

Note: Follow the assembly procedure in the numerical order given.

PUSH ROD AND LIFTER LEVER

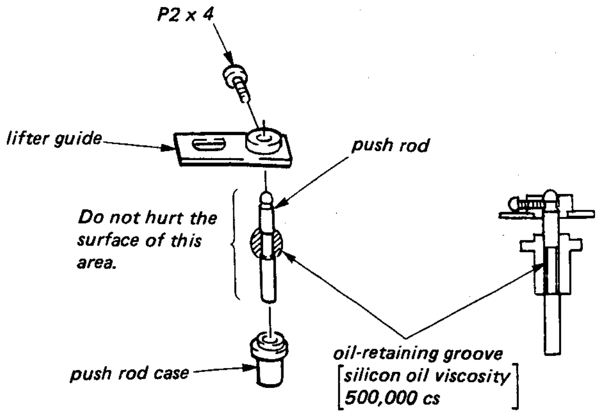

❽ PTPWH3 x 10
Sony grease
(SGL-501)
lifter lever (A)
❼ cam retainer
lifter lever shaft
❿ PTPWH3 x 10
spring
❾ special washer
lifter lever
❻ lifter lever
Sony grease
(SGL-501)
B2.6 x 16
❺ lifter cam
Sony grease
(SGL-501)
❹ PTPWH3 x 8
❸ retainer (P)
❷ push rod
❶ compression spring
(lifter)
Sony grease
(SGL-501)

Caution for installation:

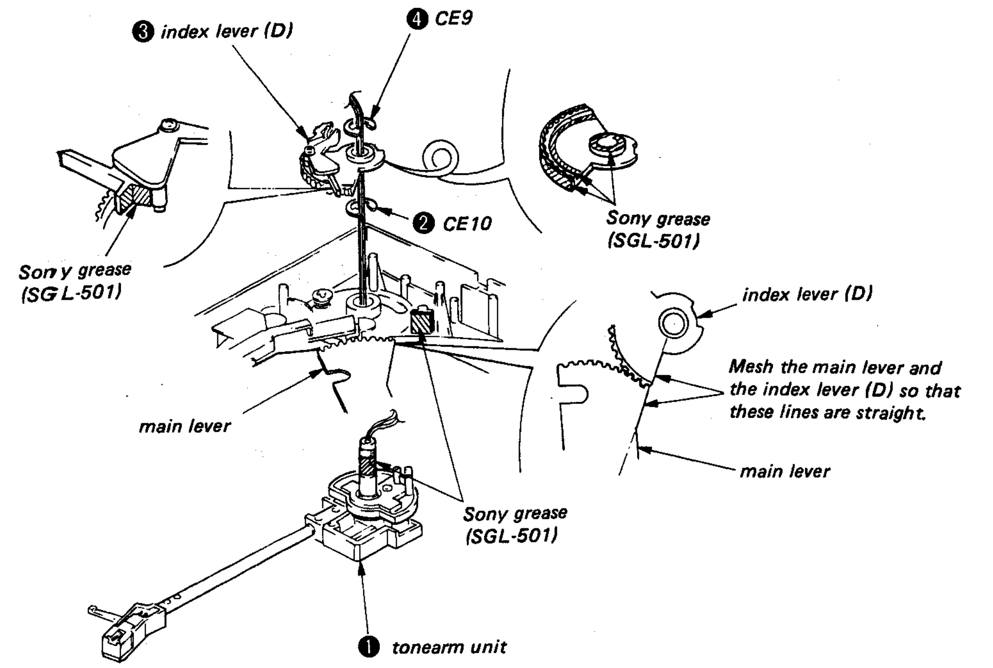
When the push rod is replaced, apply silicon oil (viscosity: 500,000 cs) to the push rod as illustrated below.

Caution:

When lubricating, rotate and move the push rod up and down a few times.

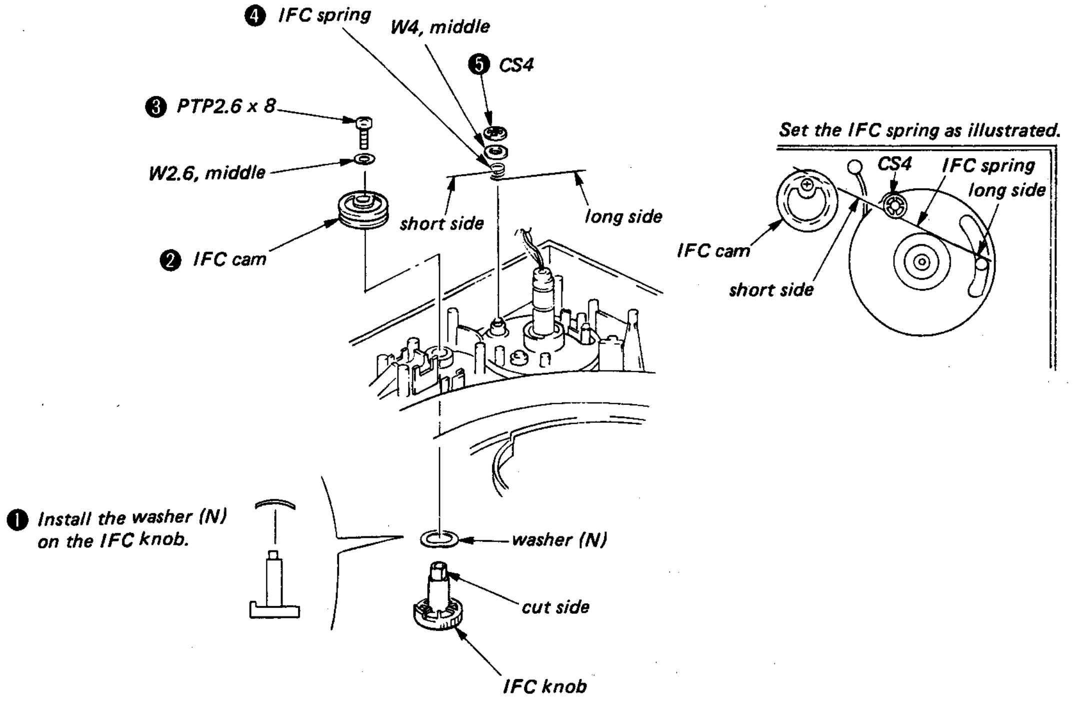

P2 x 4
lifter guide
push rod
Do not hurt the
surface of this
area.
push rod case
oil-retaining groove
[silicon oil viscosity
500,000 cs]

TONEARM UNIT AND INDEX LEVER (D)


❸ index lever (D)
❹ CE9
❷ CE10
Sony grease (SGL-501)
Sony grease (SGL-501)
index lever (D)
main lever
main lever
Sony grease (SGL-501)
❶ tonearm unit

Mesh the main lever and the index lever (D) so that these lines are straight.

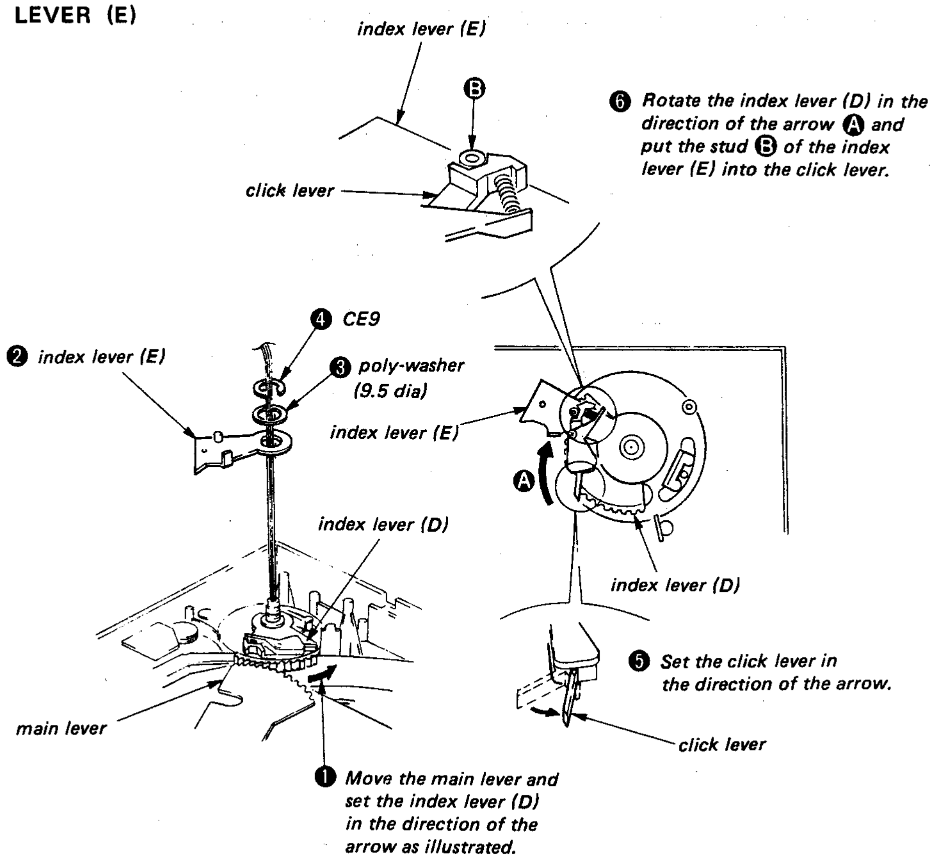
IFC KNOB


❹ IFC spring
W4, middle
❺ CS4
❸ PTP2.6 x 8
W2.6, middle
❷ IFC cam
short side
long side
CS4
IFC spring
long side
IFC cam
short side
washer (N)
cut side
IFC knob

Set the IFC spring as illustrated.

❶ Install the washer (N) on the IFC knob.

INDEX LEVER (E)


index lever (E)
B
click lever
❷ index lever (E)
❹ CE9
❸ poly-washer (9.5 dia)
index lever (E)
A
index lever (D)
index lever (D)
main lever
click lever

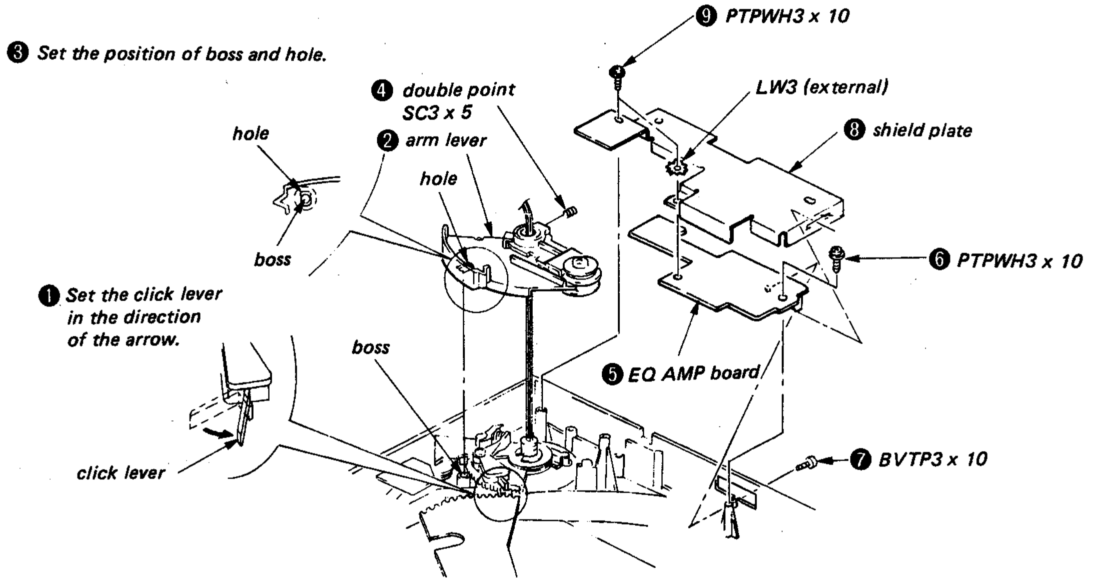
❻ Rotate the index lever (D) in the direction of the arrow Ⓐ and put the stud Ⓑ of the index lever (E) into the click lever.

❺ Set the click lever in the direction of the arrow.

❶ Move the main lever and set the index lever (D) in the direction of the arrow as illustrated.

ARM LEVER AND EQ AMP BOARD

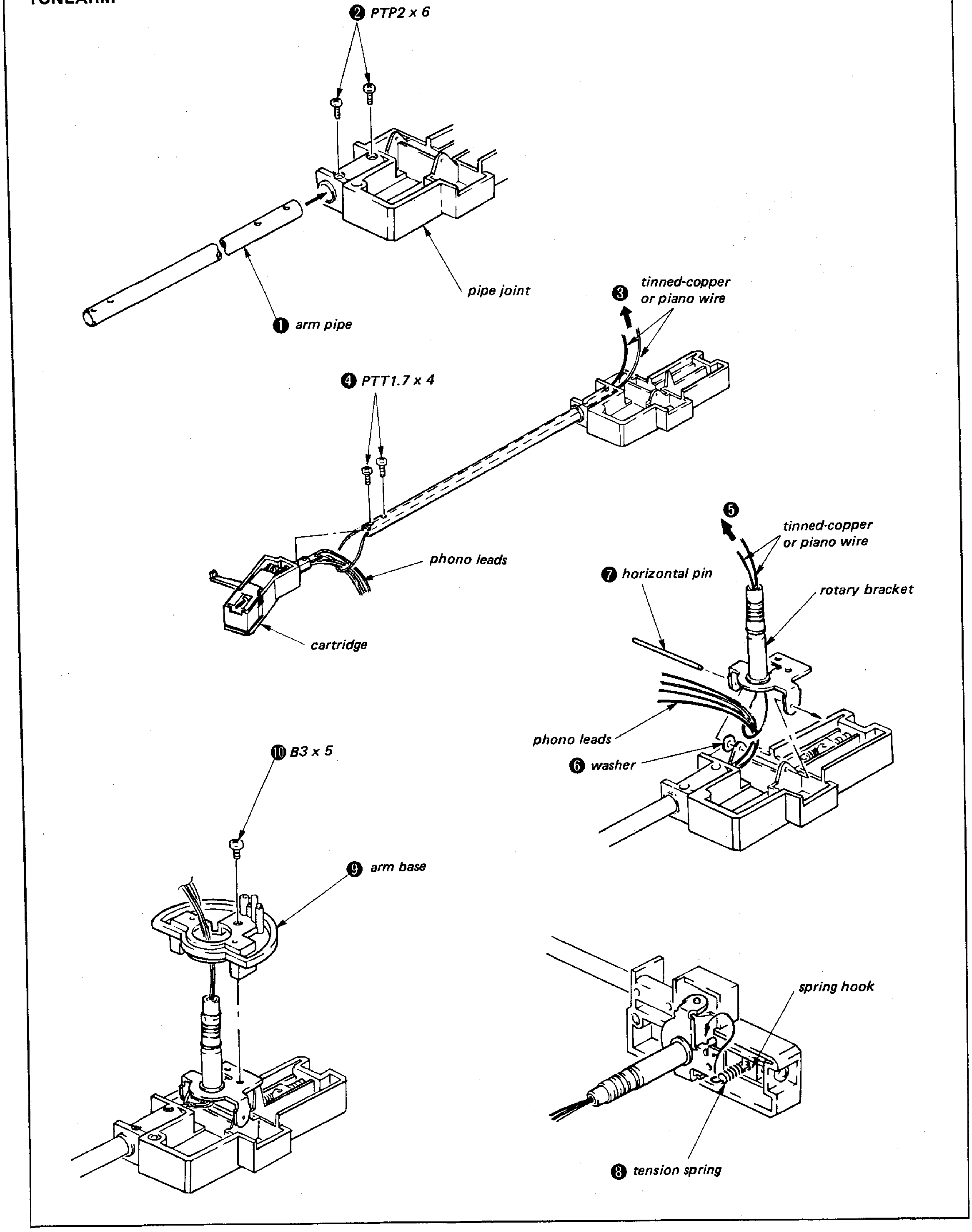
Note: The tonearm should be secured to the arm rest.


❾ PTPWH3 x 10
❹ double point SC3 x 5
LW3 (external)
❽ shield plate
hole
❷ arm lever
hole
boss
❻ PTPWH3 x 10
boss
❺ EQ AMP board
click lever
❼ BVTP3 x 10

❸ Set the position of boss and hole.

❶ Set the click lever in the direction of the arrow.

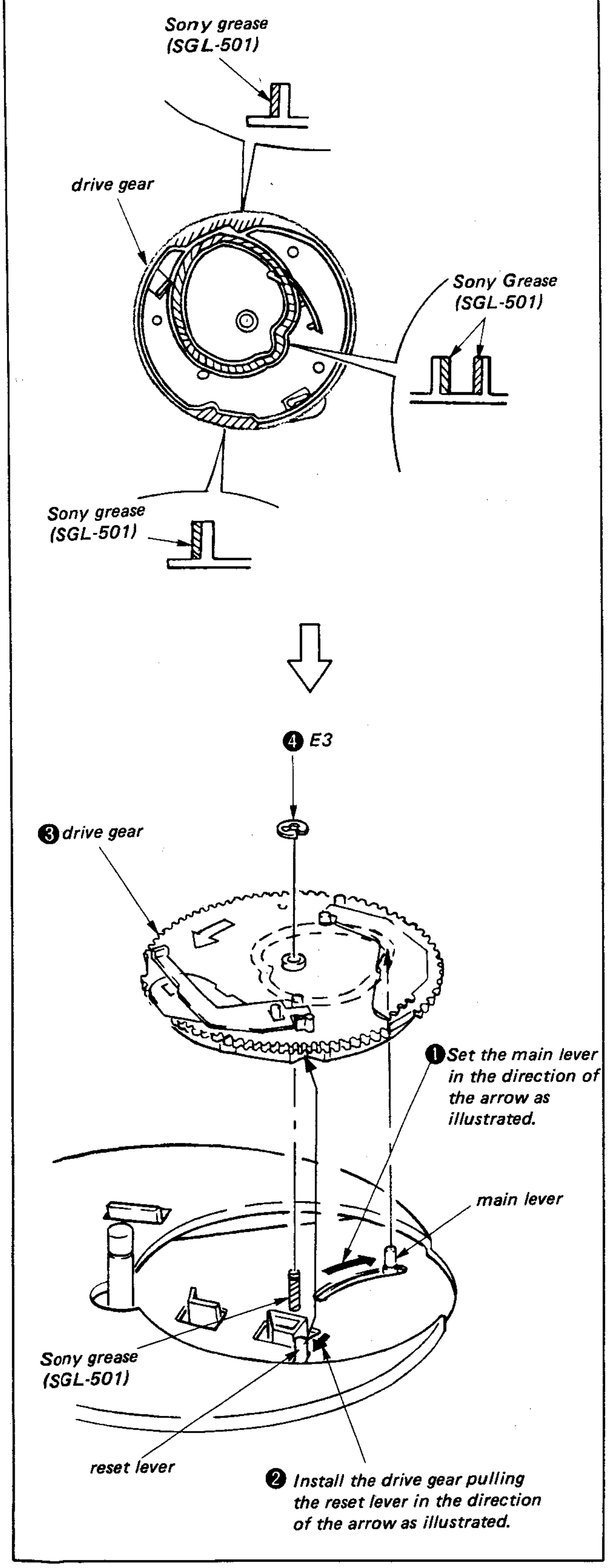
TONEARM


❷ PTP2 x 6
pipe joint
❶ arm pipe
❸ tinned-copper or piano wire
❹ PTT1.7 x 4
phono leads
cartridge
❺ tinned-copper or piano wire
❼ horizontal pin
rotary bracket
phono leads
❻ washer
❿ B3 x 5
❾ arm base
spring hook
❽ tension spring

SECTION 4
ADJUSTMENTS

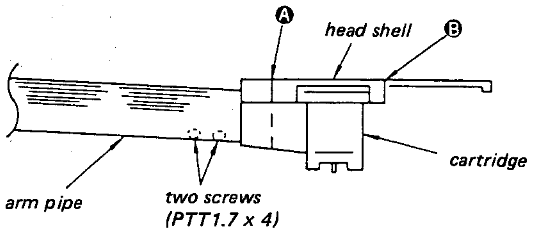
4-1. MECHANICAL ADJUSTMENTS

DRIVE GEAR


Sony grease (SGL-501)
drive gear
Sony Grease (SGL-501)
Sony grease (SGL-501)
❹ E3
❸ drive gear
❶ Set the main lever in the direction of the arrow as illustrated.
main lever
Sony grease (SGL-501)
reset lever
❷ Install the drive gear pulling the reset lever in the direction of the arrow as illustrated.

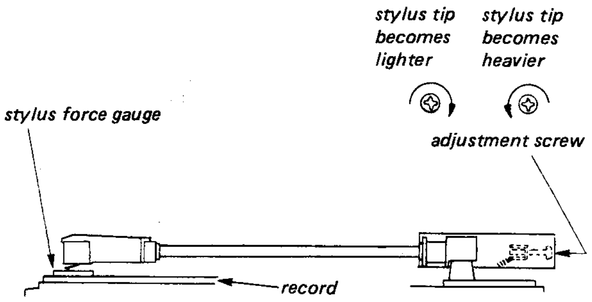
Cartridge Level Adjustment

Loosen the two screws and adjust the inclination of the cartridge so that the line of the point Ⓐ and point Ⓑ becomes horizontal against turntable. After the adjustment, secure the two screws.


Ⓐ
head shell
Ⓑ
cartridge
arm pipe
two screws (PTT1.7 x 4)

Stylus Force Adjustment

Turn the adjustment screw so that stylus force becomes 1.7 – 2.3g reading on stylus force gauge.


stylus tip becomes lighter
stylus tip becomes heavier
stylus force gauge
adjustment screw
record

Stylus Height Adjustment

Note: Perform both adjustments for manual and automatic operations.

1. Automatic

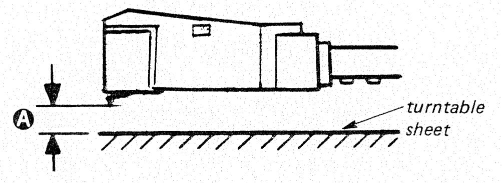
1-1. Place a turntable sheet on the turntable.
Depress the lifter lever to make a lifter-down mode (▼).

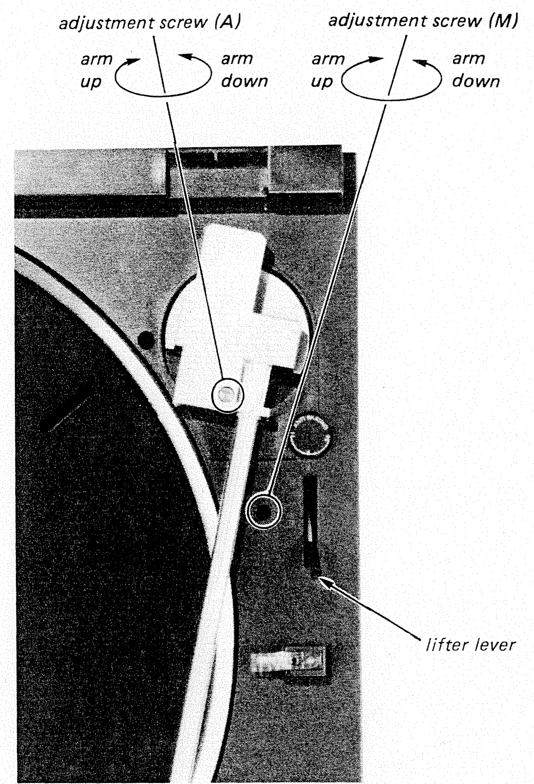
1-2. Move the arm on out-of-groove of a turntable by hand.

1-3. Adjust the adjustment screw (A) so that the stylus height Ⓐ from face of a turntable sheet becomes in 8 – 9mm.

1-4. Move the arm on inner-groove of a turntable by hand and confirm that the stylus height Ⓐ from face of a turntable sheet becomes in 8 – 9mm.

1-5. Return the arm to the armrest.





2. Manual

2-1. Place a record (30cm) on the turntable sheet.

2-2. Move the arm on inner most-groove of a record by hand.
Rotate the turntable by hand and descend the arm.

2-3. Depress the lifter lever to make a lifter-up mode (▼).

2-4. Move the arm on out-of-groove of a record by hand.

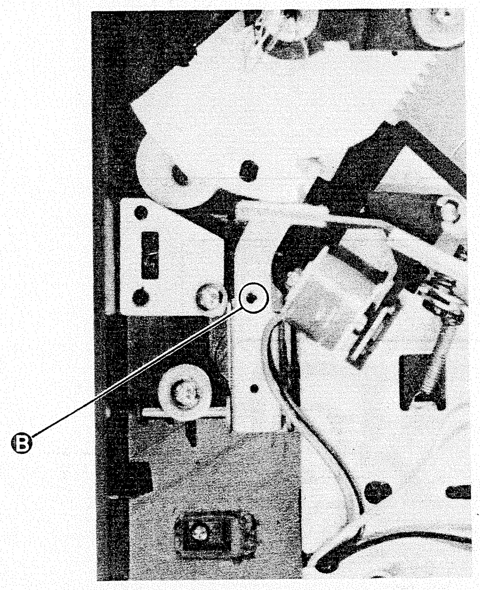
2-5. Adjust the adjustment screw (M) so that the stylus height Ⓐ from face of a record becomes in 6 – 7mm.

2-6. Move the arm on inner-groove of a record by hand.
Confirm that the stylus height Ⓐ from face of a record becomes in 6 – 7mm.

2-7. Moveover approach the arm to center of a record by hand.
Rotate the turntable by hand and return the arm.

2-8. Secure the portion Ⓑ with locking compound..

Note: The difference of stylus height between Automatic and Manual operations is within 2mm, but stylus height of Manual operation is not heighter than that of Automatic operation.



Brake Lever Position Adjustment

1. Rotate the drive gear in the direction of the arrow as Fig. 1 and set the main lever in the position ❶ as illustrated.
2. Pressing the size lever in the direction of arrow as Fig. 2, adjust the adjustment screw so that the clearance for portion Ⓐ is 0.2 – 0.8mm.
3. Rotate the drive gear again, and set the drive gear in the position ❷ in Fig. 1 where rib of drive gear appears.
4. Make sure to obtain some clearance for portion Ⓑ in Fig. 2.
5. Rotate the drive gear again, and set it in the position in step 1.
6. Source the adjustment screw with locking compound.

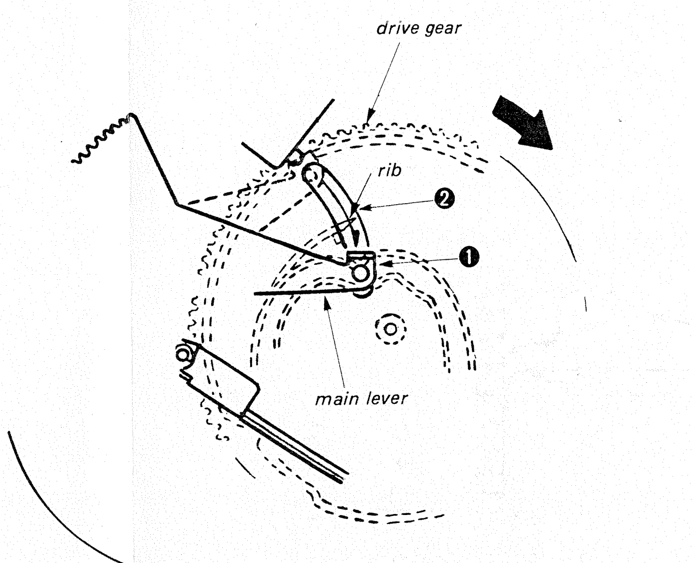
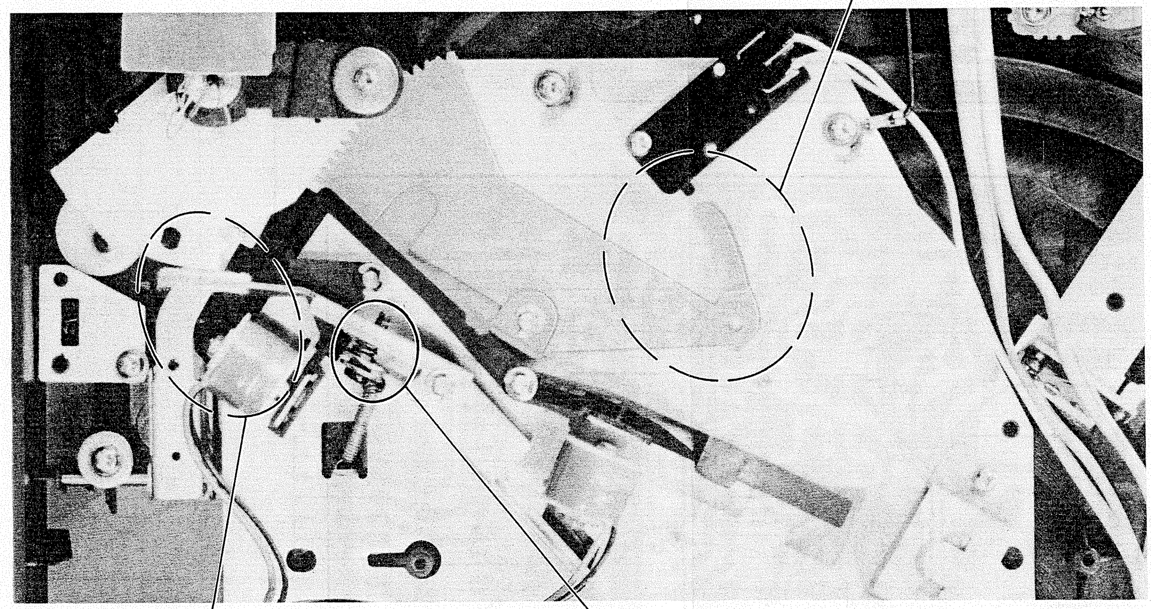


Fig. 1



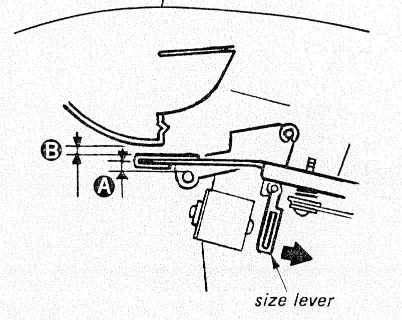


Fig. 2

adjustment screw	clearance for portion Ⓐ
↻	narrow
↺	widen

Brake Lever Position Adjustment

1. Rotate the drive gear in the direction of the arrow as Fig. 1 and set the main lever in the position ❶ as illustrated.
2. Pressing the size lever in the direction of arrow as Fig. 2, adjust the adjustment screw so that the clearance for portion Ⓐ is 0.2 – 0.8mm.
3. Rotate the drive gear again, and set the drive gear in the position ❷ in Fig. 1 where rib of drive gear appears.
4. Make sure to obtain some clearance for portion Ⓑ in Fig. 2.
5. Rotate the drive gear again, and set it in the position in step 1.
6. Source the adjustment screw with locking compound.

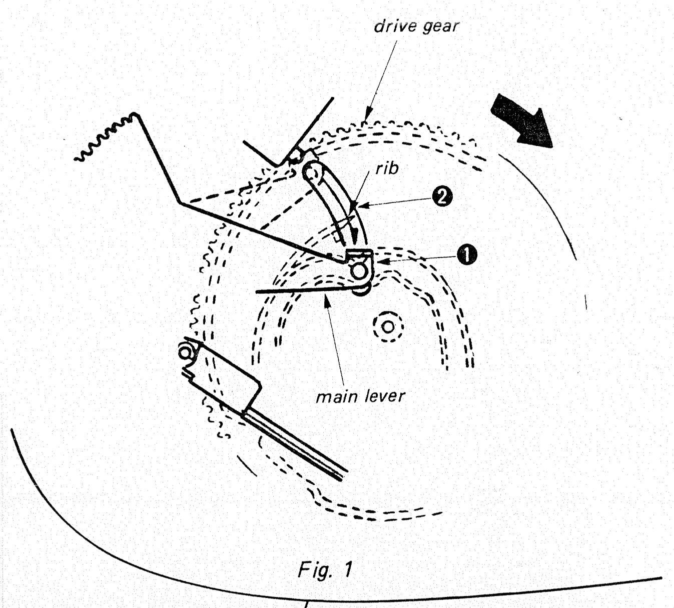
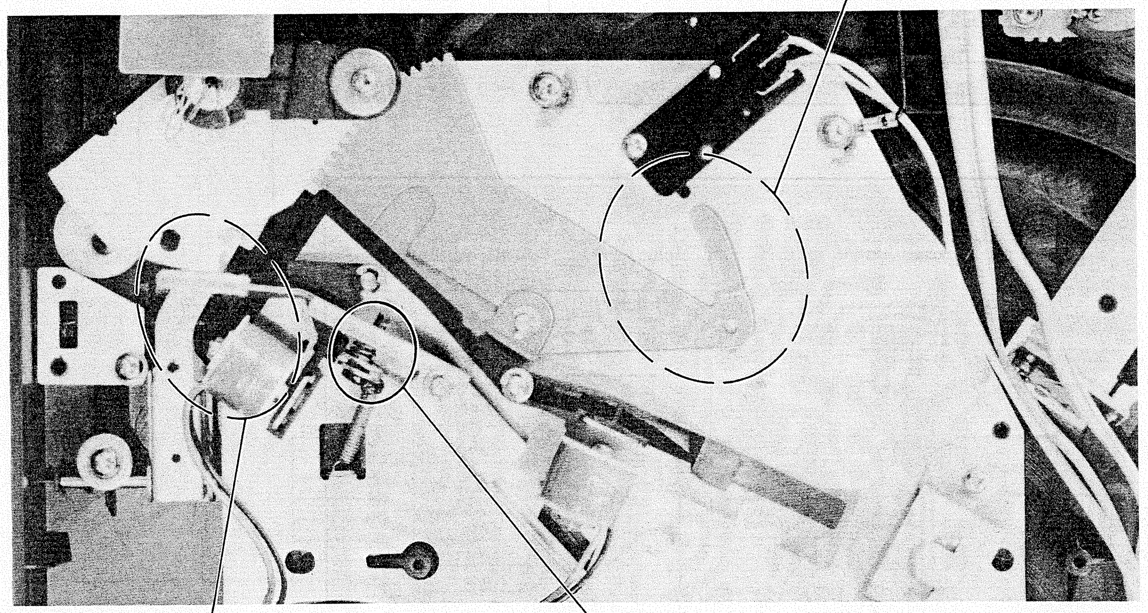


Fig. 1



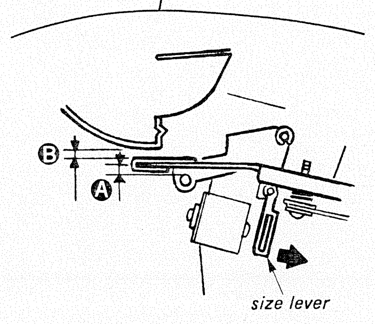


Fig. 2

adjustment screw	clearance for portion Ⓐ
↻	narrow
↺	widen

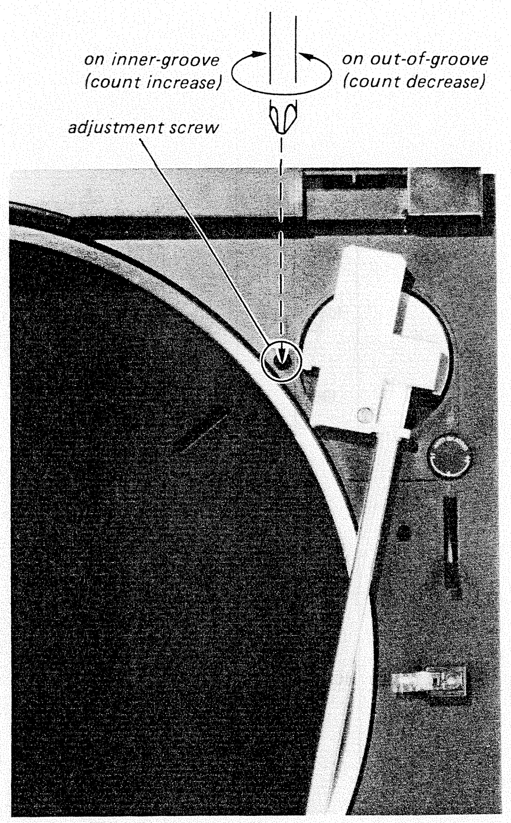
4-2. ELECTRICAL ADJUSTMENT

Stylus Drop-point Adjustment

Note: Stylus force adjustment should be completed.

1. Place a test record (YFSC-16) on the turntable sheet.
2. Set the SPEED switch to 33.
3. Press the START/STOP button.
4. By using a screwdriver, turn the adjustment screw so that the stylus tip drops on the record at the 4–17 counts position.
5. Move the arm to return detecting groove and confirm that the auto-return operation is started within 4–11 counts on the test record.

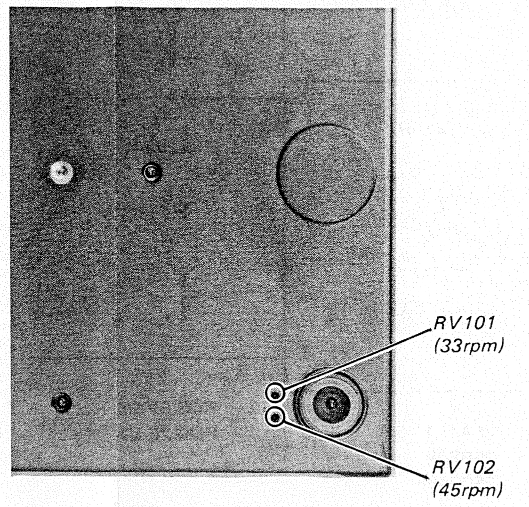
Note: The proper adjustment for a 30cm record is also correct for a 17cm record.
When turning adjustment screw, put the arm on the arm rest.


on inner-groove (count increase)
on out-of-groove (count decrease)
adjustment screw

Speed Adjustment

Note: Be sure to perform 45rpm adjustment before 33rpm.

1. Place a stroboscope record on the turntable sheet.
2. Set the SPEED switch to 45.
   Press the START/STOP button.
   Adjust RV102 so that the stripped pattern of stroboscope board is stationary.
3. Set the SPEED switch to 33.
   Adjust RV101 in the same way.

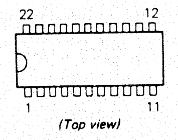


SECTION 5 DIAGRAMS

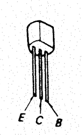
5-1. MOUNTING DIAGRAM
— Conductor Side —

Semiconductor Lead Layouts

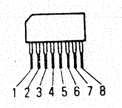
LM6417E-530


22
12
1
11
(Top view)

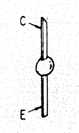
2SC2001



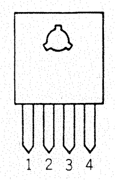
M5218L



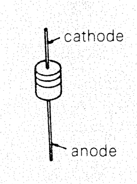
PH101



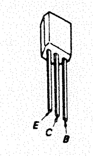
μPC1470H



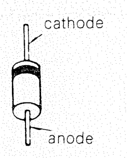
1SS202-1


cathode
anode

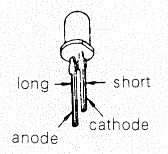
2SA1048-GR
2SB808
2SC2458

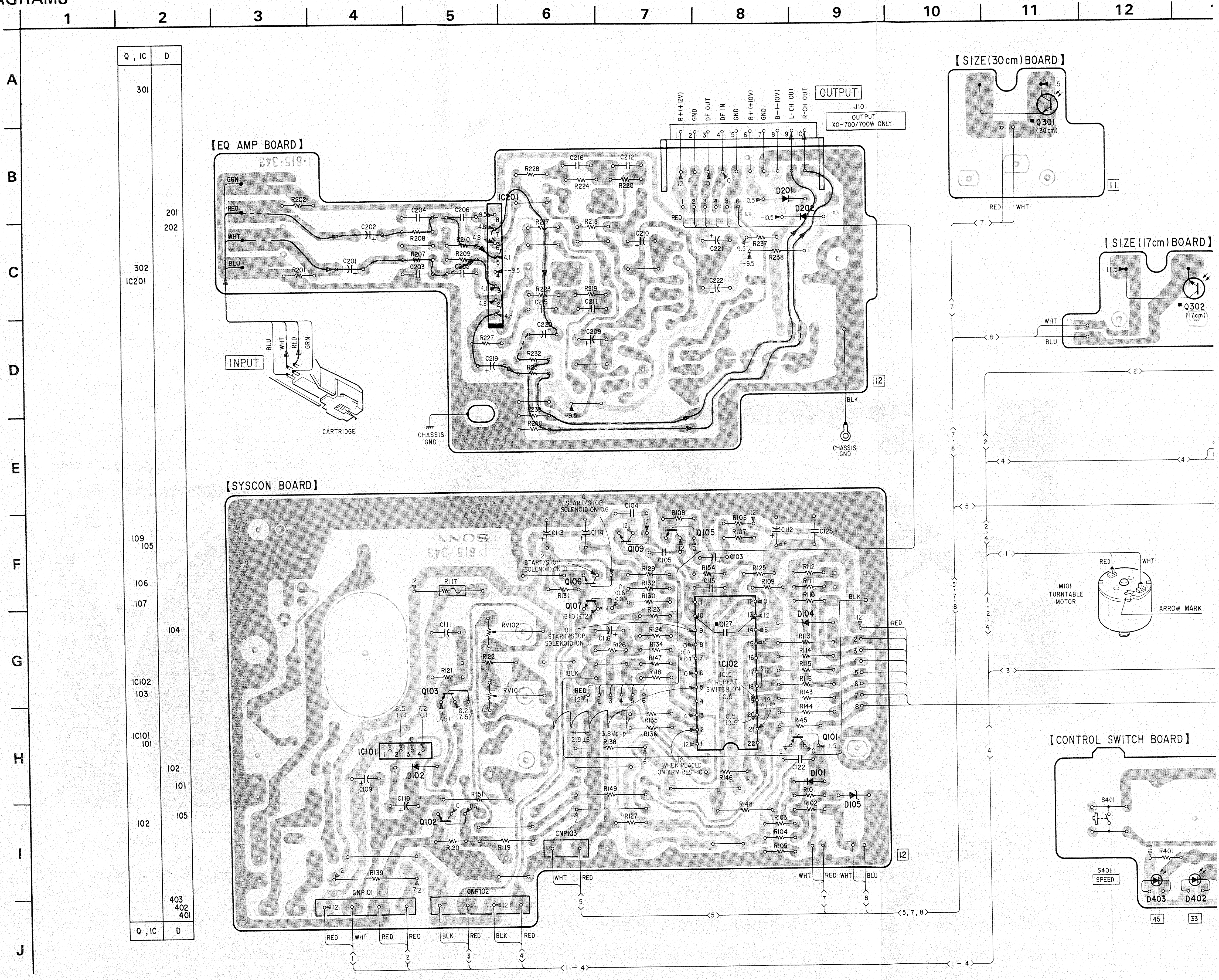


RD5.6E-B2
RD6.2E-L1


cathode
anode

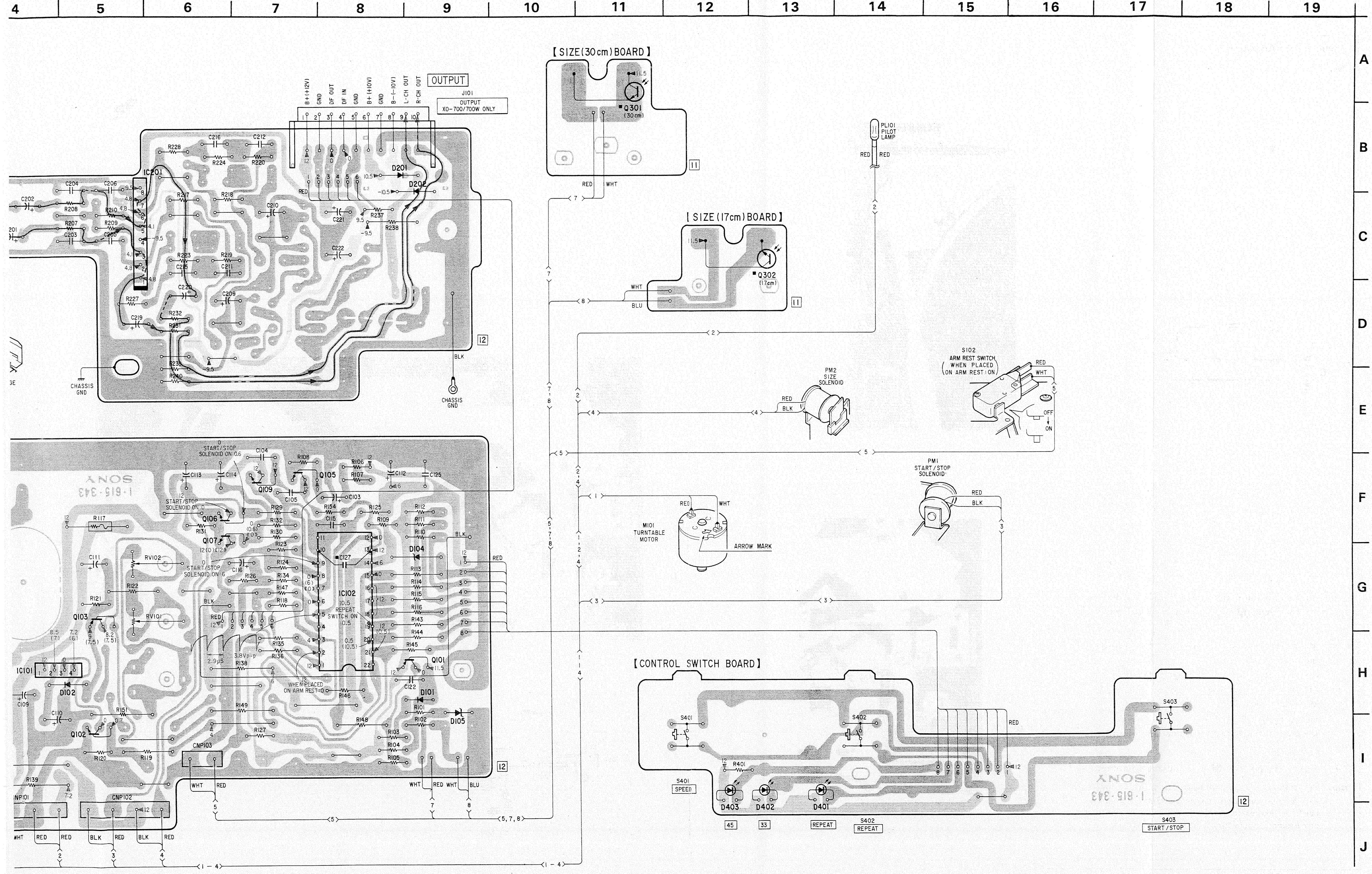
GL-5HD21


long
short
cathode
anode


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J
Q, IC
D
301
201
202
302
IC201
109
105
106
107
104
IC102
103
IC101
101
102
101
105
102
403
402
401
【EQ AMP BOARD】
1-615-343
GRN
RED
WHT
BLU
R202
R201
C202
C201
C204
C206
R208
R207
R210
R209
C203
C205
IC201
R228
C216
C212
R224
R220
R217
R218
R223
C215
R219
C211
C210
C221
R237
R238
C222
R227
C220
C209
C219
R232
R231
R235
R240
D201
D202
OUTPUT
J101
OUTPUT
XO-700/700W ONLY
B+(+12V)
GND
DF OUT
DF IN
GND
B+(+10V)
GND
B-(-10V)
L-CH OUT
R-CH OUT
INPUT
BLU
WHT
RED
GRN
CARTRIDGE
CHASSIS GND
BLK
CHASSIS GND
12
【SIZE(30cm)BOARD】
Q301 (30cm)
11
RED
WHT
【SIZE(17cm)BOARD】
Q302 (17cm)
WHT
BLU
【SYSCON BOARD】
SONY
1-615-343
START/STOP SOLENOID ON : 0.6
START/STOP SOLENOID ON : 0
START/STOP SOLENOID ON : 6
C104
R108
R106
R107
C112
C125
C113
C114
Q109
Q105
C105
C103
R154
R125
R112
R111
R129
R132
R131
Q106
C115
R109
R110
Q107
R130
R123
R117
D104
C111
RV102
C116
R124
C127
R113
R126
R134
R114
R122
R147
R118
IC102
R115
R116
R121
RV101
REPEAT SWITCH ON
R143
Q103
R144
R135
R136
R145
Q101
R138
3.8Vp-p
2.9μS
IC101
D102
WHEN PLACED ON ARM REST
R146
C122
D101
C109
C110
R149
R151
Q102
R127
R148
R101
R102
D105
R103
R104
R105
R120
R119
CNP103
R139
CNP101
CNP102
WHT
RED
BLK
BLU
M101 TURNTABLE MOTOR
ARROW MARK
【CONTROL SWITCH BOARD】
S401
SPEED
R401
D403
D402
45
33

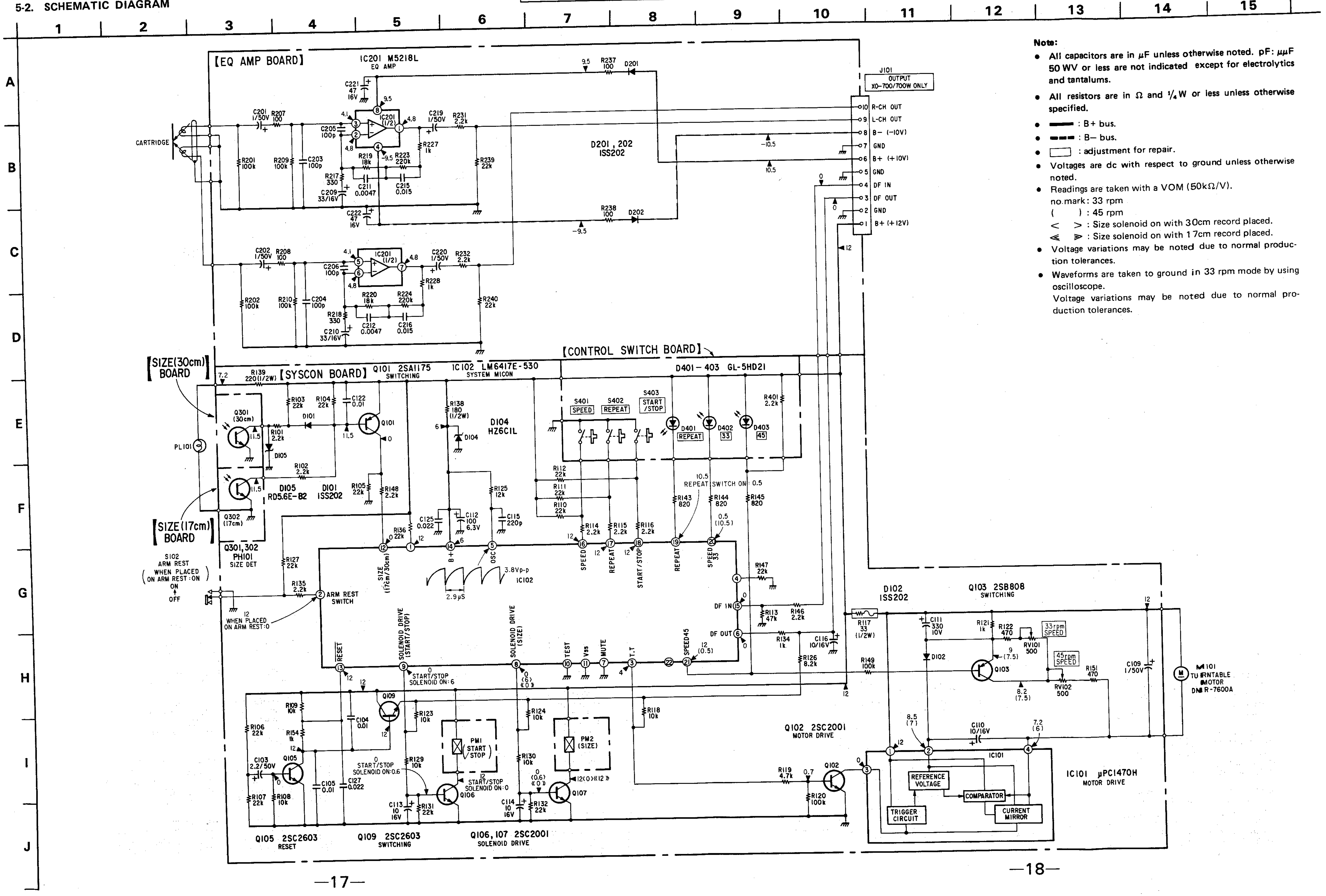
Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ▭▭➡▭▭ : signal path
- ▭▭➡ : L-CH signal path
- ▭▭➡ : R-CH signal path
- ▨ : B + pattern
- ▨ : B − pattern



4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
A
B
C
D
E
F
G
H
I
J
OUTPUT
J101
OUTPUT
XO-700/700W ONLY
B+(+12V)
GND
DF OUT
DF IN
GND
B+(+10V)
GND
B-(-10V)
L-CH OUT
R-CH OUT
IC201
D201
D202
C216
C212
R228
R224
R220
C204
C206
C202
R208
R210
R207
R209
C203
C205
R217
R218
C210
C221
R237
R238
C222
R223
C215
R219
C211
C220
C209
R227
C219
R232
R231
R239
R240
CHASSIS GND
BLK
CHASSIS GND
12
【SIZE(30cm)BOARD】
Q301
(30cm)
11
RED
WHT
【SIZE(17cm)BOARD】
Q302
(17cm)
WHT
BLU
11
PL101
PILOT
LAMP
RED
RED
S102
ARM REST SWITCH
(WHEN PLACED ON ARM REST: ON)
OFF
ON
PM2
SIZE
SOLENOID
RED
BLK
PM1
START/STOP
SOLENOID
RED
BLK
M101
TURNTABLE
MOTOR
RED
WHT
ARROW MARK
SONY
1-615-343
START/STOP SOLENOID ON:0.6
START/STOP SOLENOID ON:0
START/STOP SOLENOID ON:6
C104
R108
R106
R107
Q105
C112
C125
C113
C114
Q109
C105
C103
R129
R154
R125
R112
Q106
R132
C115
R109
R111
R117
R131
R130
R110
Q107
R123
D104
C111
RV102
C116
R124
C127
R113
R126
R134
IC102
R114
R122
R147
R115
R121
R118
REPEAT SWITCH ON
R116
Q103
RV101
R143
R135
R144
R145
2.9μS
3.8Vp-p
R138
R136
Q101
IC101
D102
C109
WHEN PLACED ON ARM REST=0
R146
C122
D101
C110
R151
R149
R148
R101
R102
D105
Q102
R127
R103
R104
R120
R119
CNP103
R105
12
R139
CNP101
CNP102
WHT
RED
BLU
BLK
【CONTROL SWITCH BOARD】
S401
S402
S403
R401
D403
D402
D401
S401
SPEED
45
33
REPEAT
S402
REPEAT
S403
START/STOP
12

5-2. SCHEMATIC DIAGRAM


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J
[EQ AMP BOARD]
IC201 M5218L
EQ AMP
CARTRIDGE
C221 47 16V
C201 1/50V
R207 100
C205 100p
R201 100k
R209 100k
C203 100p
R219 18k
R223 220k
R217 330
C211 0.0047
C215 0.015
C209 33/16V
C222 47 16V
C219 1/50V
R231 2.2k
R227 1k
R239 22k
R237 100
D201
R238 100
D202
D201, 202
1SS202
C202 1/50V
R208 100
C206 100p
R202 100k
R210 100k
C204 100p
R220 18k
R224 220k
R218 330
C212 0.0047
C216 0.015
C210 33/16V
C220 1/50V
R232 2.2k
R228 1k
R240 22k
J101
OUTPUT
XO-700/700W ONLY
R-CH OUT
L-CH OUT
B– (–10V)
GND
B+ (+10V)
GND
DF IN
DF OUT
GND
B+ (+12V)
[SIZE(30cm)] BOARD
[SIZE(17cm)] BOARD
[SYSCON BOARD]
[CONTROL SWITCH BOARD]
R139 220(1/2W)
Q101 2SA1175
SWITCHING
IC102 LM6417E-530
SYSTEM MICON
D401–403 GL-5HD21
Q301 (30cm)
Q302 (17cm)
PL101
Q301,302 PH101
SIZE DET
R103 22k
R104 22k
C122 0.01
D101
R101 2.2k
D105
R102 2.2k
D105 RD5.6E-B2
D101 1SS202
R105 22k
R148 2.2k
R138 180 (1/2W)
D104 HZ6C1L
R125 12k
C125 0.022
C112 100 6.3V
C115 220p
R136 22k
S401 SPEED
S402 REPEAT
S403 START/STOP
D401 REPEAT
D402 33
D403 45
R401 2.2k
R112 22k
R111 22k
R110 22k
R114 2.2k
R115 2.2k
R116 2.2k
R143 820
R144 820
R145 820
REPEAT SWITCH ON : 0.5
SPEED
REPEAT
START/STOP
SPEED 33
SIZE (17cm/30cm)
OSC
3.8Vp-p IC102
2.9μS
S102 ARM REST
(WHEN PLACED ON ARM REST : ON)
ON OFF
WHEN PLACED ON ARM REST : 0
R127 22k
R135 2.2k
ARM REST SWITCH
R147 22k
DF IN
DF OUT
R113 47k
R146 2.2k
R134 1k
C116 10/16V
R126 8.2k
RESET
SOLENOID DRIVE (START/STOP)
SOLENOID DRIVE (SIZE)
TEST
Vss
MUTE
T.T
SPEED45
START/STOP SOLENOID ON : 6
R109 10k
R106 22k
R154 1k
C103 2.2/50V
Q105
R107 22k
R108 10k
C105 0.01
C127 0.022
C104 0.01
Q109
R123 10k
R129 10k
START/STOP SOLENOID ON : 0.6
C113 10 16V
R131 22k
Q106
START/STOP SOLENOID ON : 0
PM1 START / STOP
PM2 (SIZE)
R124 10k
R130 10k
C114 10 16V
R132 22k
Q107
R118 10k
Q105 2SC2603 RESET
Q109 2SC2603 SWITCHING
Q106,107 2SC2001 SOLENOID DRIVE
D102 1SS202
Q103 2SB808 SWITCHING
R117 33 (1/2W)
C111 330 10V
R121 1k
R122 470
RV101 500
33rpm SPEED
45rpm SPEED
R149 100k
D102
Q103
R151 470
RV102 500
C109 1/50V
M101 TURNTABLE MOTOR DNR-7600A
Q102 2SC2001 MOTOR DRIVE
R119 4.7k
R120 100k
C110 10/16V
IC101
REFERENCE VOLTAGE
COMPARATOR
TRIGGER CIRCUIT
CURRENT MIRROR
IC101 μPC1470H MOTOR DRIVE

Note:

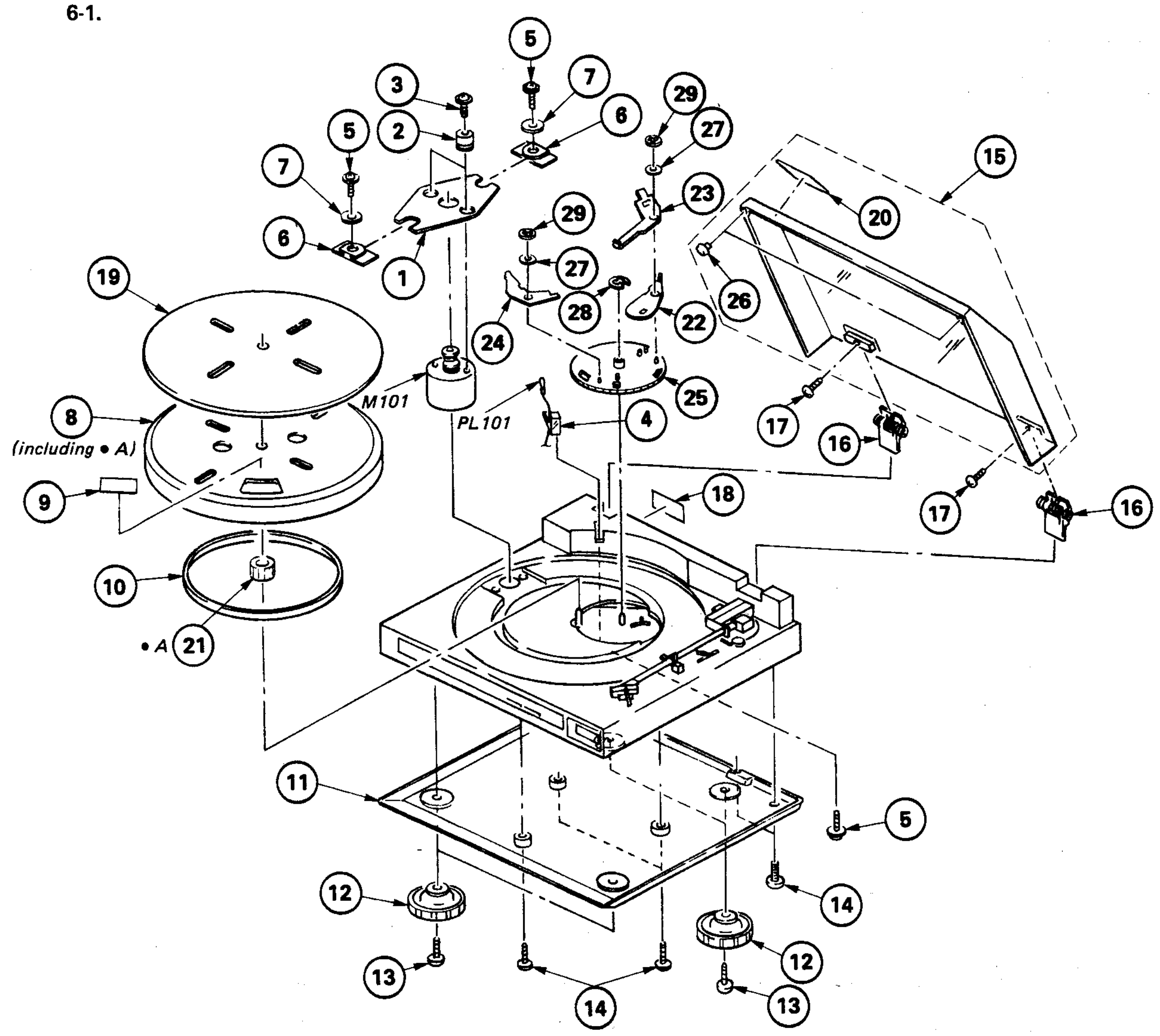
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▬ : B+ bus.
- ▬ ▬ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a VOM (50kΩ/V).
  - no mark: 33 rpm
  - ( ) : 45 rpm
  - < > : Size solenoid on with 30cm record placed.
  - ≪ ≫ : Size solenoid on with 17cm record placed.
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in 33 rpm mode by using oscilloscope. Voltage variations may be noted due to normal production tolerances.

SECTION 6
EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

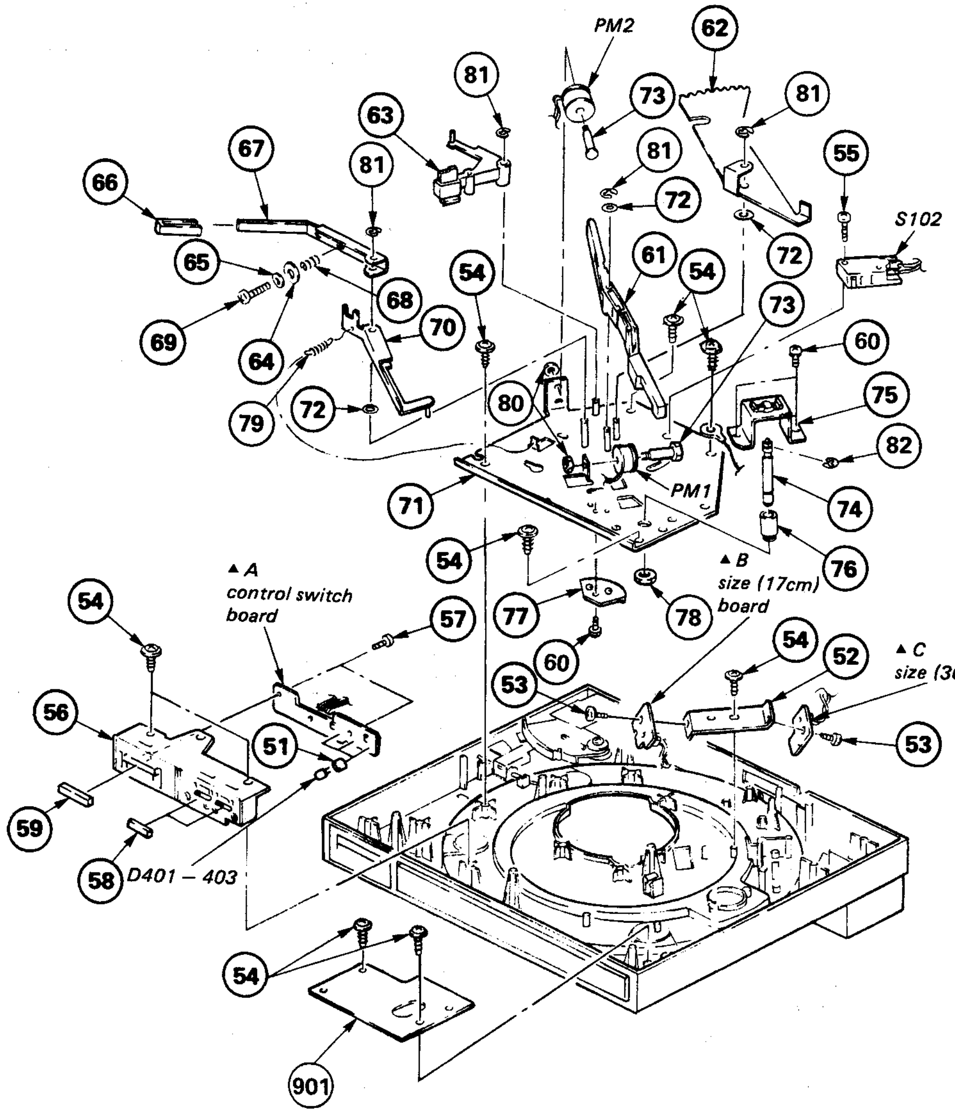
6-1.


5
7
3
2
5
6
29
27
7
6
15
23
29
19
1
27
20
28
26
22
24
25
M101
8
(including • A)
PL 101
4
17
16
9
18
17
16
10
• A 21
11
5
12
14
13
14
12
13

No.	Part No.	Description	Remarks
1	*4-908-106-01	BRACKET (B), MOTOR	
2	4-909-061-01	CUSHION, MOTOR	
3	4-909-062-01	SCREW, MOTOR	
4	4-908-110-01	COVER, LAMP	
5	3-703-137-00	SCREW +PTPWH 3X10	
6	4-908-120-01	RUBBER, FLOATING	
7	*4-301-647-00	WASHER, SPECIAL	
8	X-4909-004-1	TURNTABLE ASSY	21
9	*4-909-004-01	LABEL, CAUTION, GEAR	
10	4-850-664-00	BELT	
11	4-909-003-11	PLATE, BOTTOM	
12	X-4909-016-1	INSULATOR ASSY	
13	7-685-550-19	SCREW +BTP 3X16 TYPE2 N-S	
14	7-685-648-19	SCREW +BVTP 3X12 TYPE2 N-S	
15	X-4887-907-0	COVER ASSY, DUST	20,26
16	4-885-731-11	HINGE	

No.	Part No.	Description	Remarks
17	7-682-546-04	SCREW +B 3X5	
18	*4-909-074-01	LABEL, MODEL NUMBER	
19	4-909-059-11	SHEET, TURNTABLE	
20	3-703-705-01	STICKER, SONY SYMBOL (30)	
21	4-868-052-00	GEAR, CENTER	
22	4-874-232-00	CLUTCH (R)	
23	4-874-254-00	CLUTCH (S)	
24	4-874-279-00	CLUTCH (L)	
25	4-880-524-00	GEAR (S), DRIVE	
26	4-885-183-00	CUSHION (D)	
27	7-623-105-15	W 2, MIDDLE	
28	7-624-106-04	STOP RING 3.0, TYPE -E	
29	7-624-190-81	STOP RING 2, TYPE-CS	
M101	8-835-126-01	MOTOR, DC (DNR-7600A)	
PL101	1-518-169-XX	LAMP, PILOT	

6-2.

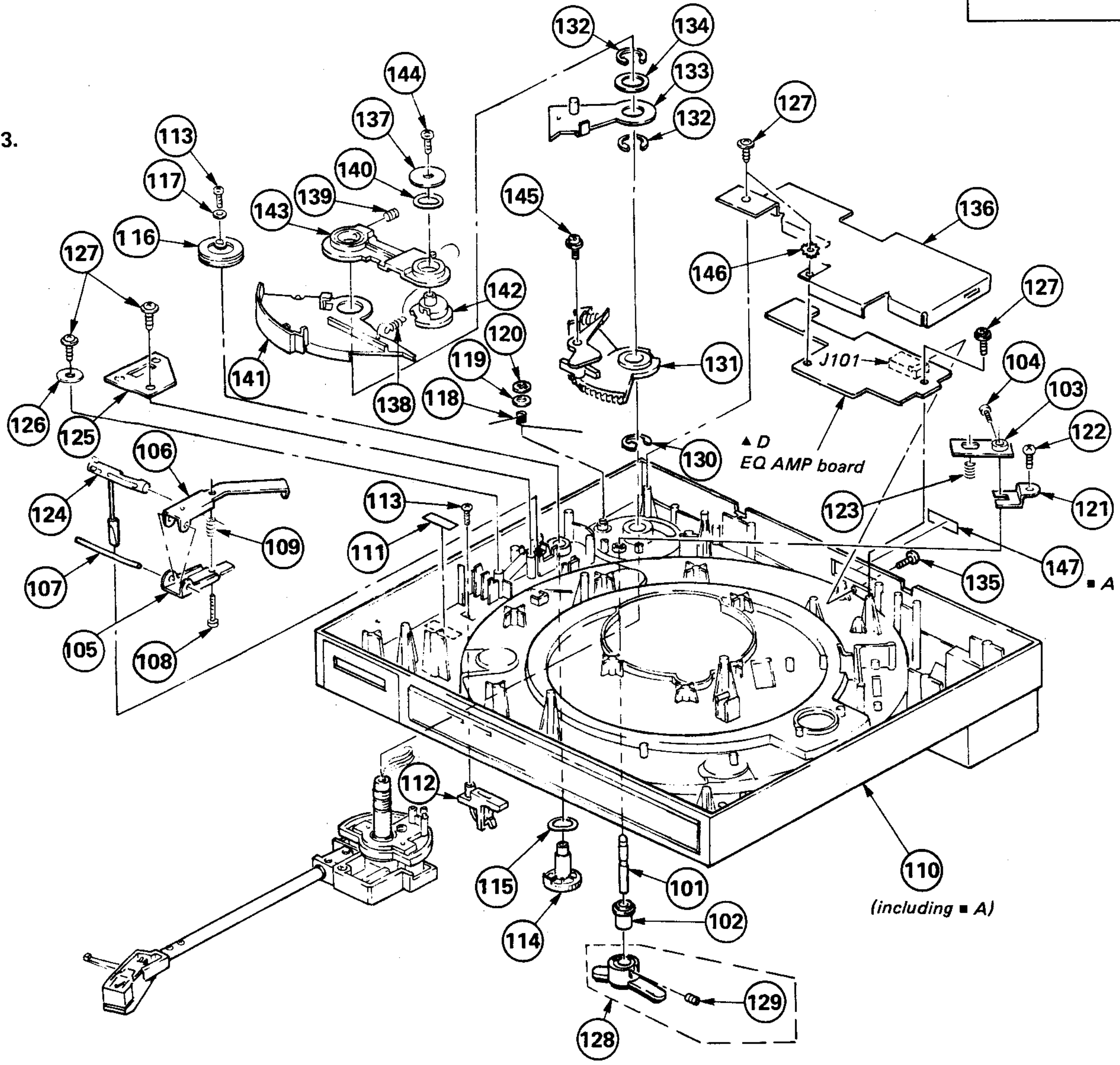

PM2
62
81
73
81
63
67
81
81
72
55
66
S102
72
65
61
54
68
54
73
69
70
60
64
75
80
79
72
82
PM1
71
74
▲A
control switch
board
54
▲B
size (17cm)
board
76
54
57
77
78
54
52
▲C
size (30cm) board
60
53
56
51
53
59
58
D401 – 403
54
901

(including ▲ A – C and ▲ D of next page)

No.	Part No.	Description	Remarks
51	*4-901-657-00	SPACER (A), LED	
52	*4-909-037-01	BRACKET, SENSOR	
53	7-685-750-04	SCREW +PTT 3X5 (S)	
54	3-703-137-00	SCREW +PTPWH 3X10	
55	7-685-755-01	SCREW +PTT 3X14 (S)	
56	*4-909-078-01	BASE, CONTROL BUTTON	
57	7-685-134-14	SCREW +PTP 2.6X8 TYPE2 NON-SLIT	
58	4-909-076-01	BUTTON, SPEED/REPEAT	
59	4-909-079-01	BUTTON, START/STOP	
60	7-682-546-04	SCREW +B 3X5	
61	X-4909-006-1	LEVER ASSY, CLUTCH	
62	*X-4909-007-1	LEVER ASSY, MAIN	
63	X-4909-008-1	LEVER (DP) ASSY, SIZE	
64	*4-301-647-00	WASHER, SPECIAL	
65	4-812-554-00	WASHER	
66	4-874-275-00	PAD, BRAKE	
67	*4-909-030-01	LEVER (B), BRAKE	
68	4-909-031-01	SPRING (BRAKE B), COMPRESSION	
69	7-682-551-09	SCREW +B 3X14	
70	*X-4909-010-1	LEVER ASSY, RESET	

No.	Part No.	Description	Remarks
71	*X-4909-015-1	CHASSIS ASSY	
72	3-701-441-21	WASHER (t=0.5)	
73	4-874-234-00	CORE	
74	4-908-103-01	SHAFT, CENTER	
75	*4-909-021-01	BRACKET, BEARING	
76	4-909-022-01	BEARING (B)	
77	*4-909-023-01	RETAINER, CLUTCH	
78	4-909-084-01	NUT, BEARING	
79	4-909-085-01	SPRING, TENTION	
80	7-622-207-05	N 2.6, TYPE 2	
81	7-624-106-04	STOP RING 3.0, TYPE -E	
82	7-624-133-34	STOP RING 8, TYPE-CE	
901	*A-4619-268-A	MOUNTED PCB, SYSTEM CONTROL	
D401	8-719-906-58	DIODE GL-5HD21	
D402	8-719-906-58	DIODE GL-5HD21	
D403	8-719-906-58	DIODE GL-5HD21	
PM1	1-454-394-11	SOLENOID, PLUNGER, START/STOP	
PM2	1-454-394-11	SOLENOID, PLUNGER, SIZE	
S102	1-570-149-11	SWITCH, MICRO, ARM REST	

6-3.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EQ AMP board
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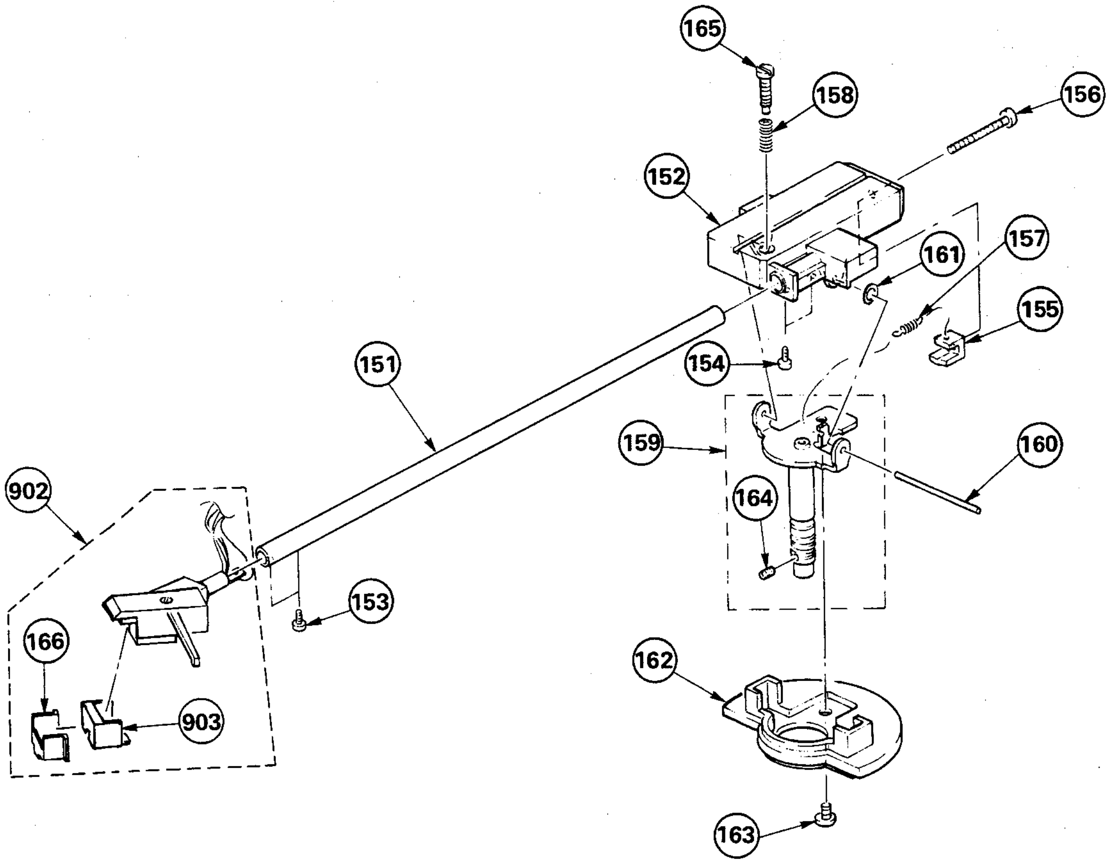
No.	Part No.	Description	Remarks
101	4-909-034-01	ROD (A), PUSH	
102	4-909-033-01	CASE (A), ROD, PUSH	
103	*X-4909-011-1	GUIDE ASSY, LIFTER	
104	7-621-255-25	SCREW +P 2X4	
105	*4-909-038-01	LEVER, LIFTER	
106	*4-880-501-00	LEVER (A), LIFTER	
107	*4-881-611-00	SHAFT, LEVER, LIFTER	
108	7-621-775-80	SCREW +B 2.6X16	
109	4-880-503-00	SPRING, COMPRESSION	
110	X-4909-021-1	(BLACK)....FRAME (B) ASSY	147
	X-4909-025-1	(SILVER)...FRAME (S) ASSY	147
111	3-701-030-00	LABEL, SERIAL NUMBER	
112	X-4879-707-0	REST SUB ASSY, ARM	
113	7-685-134-14	SCREW +PTP 2.6X8 TYPE2 NON-SLIT	
114	4-909-010-01	KNOB, IFC	
115	4-844-041-00	WASHER, (N)	
116	*4-887-903-00	CAM, IFC	
117	7-688-002-11	W 2.6, MIDDLE	
118	4-909-067-01	SPRING, IFC	
119	7-688-004-11	W 4, MIDDLE	
120	7-624-190-31	STOP RING 4, TYPE-CS	
121	*4-909-008-01	RETAINER (P)	
122	3-703-135-00	SCREW +PTPWH 3X8	
123	4-909-099-01	SPRING, COMPRESSION (LIFTER D)	
124	4-909-012-01	CAM, LIFTER	
125	*4-909-009-01	RETAINER, CAM	
126	*4-301-647-00	WASHER, SPECIAL	
127	3-703-137-00	SCREW +PTPWH 3X10	
128	X-4909-002-1	PLATE ASSY, UP AND DOWN	129
129	7-621-738-08	SET-SCT, HEX. 2.6X4, FLAT POINT	
130	7-624-133-54	STOP RING 10, TYPE-CE	
131	X-4909-012-1	LEVER (D) ASSY, INDEX	
132	7-624-133-44	STOP RING 9, TYPE-CE	
133	*X-4909-003-1	LEVER (E) ASSY, INDEX	
134	4-876-324-21	POLY-SLIDER (DIA. 9.5)	
135	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
136	*4-909-077-01	PLATE (EQ), SHIELD	
137	0-056-028-00	WASHER, PLAIN, 14 DIA.	
138	3-548-124-00	SPRING, TENSION	
139	3-701-507-00	SET SCREW, DOUBLE POINT,(M3X5)	
140	4-844-041-11	WASHER, (N)	
141	4-909-045-01	LEVER (C), ARM	
142	4-909-046-01	CAM, ECCENTRIC	
143	4-909-056-01	LEVER (D), ARM	
144	7-685-144-21	SCREW +PTP 3X5 TYPE2 NON-SLIT	
145	7-687-202-21	TOTSU PTPWH 2X4, TYPE 2, SLIT	
146	7-623-422-07	LW 3, TYPE B	
147	*4-909-093-01	LABEL, CONNECTOR	
J101	1-562-479-11	SOCKET, CONNECTOR 10P (OUTPUT)	

6-4.



No.	Part No.	Description	Remarks
151	4-909-052-01	PIPE, ARM	
152	X-4909-005-1	JOINT ASSY, PIPE	
153	7-685-773-04	SCREW +PTT 1.7X4	
154	7-685-104-14	SCREW +PTP 2X6 TYPE2 SLIT	
155	*4-909-016-01	HOOK, SPRING	
156	7-682-552-04	SCREW +B 3X16	
157	4-889-510-00	SPRING, TENSION	
158	4-887-918-00	SPRING, COMPRESSION	
159	X-4909-014-1	BRACKET ASSY, ROTARY	164
160	*4-909-014-01	PIN, HORIZONTAL	
161	3-701-437-01	WASHER (t=0.13)	
162	4-909-051-01	BASE, ARM	
163	7-682-546-04	SCREW +B 3X5	
164	7-621-712-17	SET-SCREW, SLOT 2.6X2 CUP POINT	
165	4-909-086-01	SHAFT (B), HEIGHT ADJUSTMENT	
166	3-706-613-00	PROTECTOR, STYLUS	
902	1-549-124-11	CARTRIDGE (VL-42GSE)	166,903
903	1-549-112-11	STYLUS (ND-142G)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*A-4619-268-A	MOUNTED PCB, SYSTEM CONTROL			
902	1-549-124-11	CARTRIDGE (VL-42GSE)			
903	1-549-112-11	STYLUS (ND-142G)			
C103	1-123-381-00	ELECT	2.2MF	20%	100V
C104	1-162-306-31	CERAMIC	0.01MF	20%	16V
C105	1-162-306-31	CERAMIC	0.01MF	20%	16V
C109	1-123-611-00	ELECT	1MF	20%	50V
C110	1-123-617-00	ELECT	10MF	20%	16V
C111	1-123-309-00	ELECT	330MF	20%	10V
C112	1-123-307-00	ELECT	100MF	20%	10V
C113	1-123-356-00	ELECT	10MF	20%	50V
C114	1-123-356-00	ELECT	10MF	20%	50V
C115	1-162-286-31	CERAMIC	220PF	10%	50V
C116	1-123-617-00	ELECT	10MF	20%	16V
C122	1-162-306-31	CERAMIC	0.01MF	20%	16V
C125	1-101-005-00	CERAMIC	0.022MF		50V
C127	1-101-005-00	CERAMIC	0.022MF		50V
C201	1-123-380-00	ELECT	1MF	20%	100V
C202	1-123-380-00	ELECT	1MF	20%	100V
C203	1-162-282-31	CERAMIC	100PF	10%	50V
C204	1-162-282-31	CERAMIC	100PF	10%	50V
C205	1-162-282-31	CERAMIC	100PF	10%	50V
C206	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-123-318-00	ELECT	33MF	20%	16V
C210	1-123-318-00	ELECT	33MF	20%	16V
C211	1-110-203-00	MYLAR	0.0047MF	5%	50V
C212	1-110-203-00	MYLAR	0.0047MF	5%	50V
C215	1-136-155-00	FILM	0.015MF	5%	50V
C216	1-136-155-00	FILM	0.015MF	5%	50V
C219	1-123-380-00	ELECT	1MF	20%	100V
C220	1-123-380-00	ELECT	1MF	20%	100V
C221	1-123-332-00	ELECT	47MF	20%	25V
C222	1-123-332-00	ELECT	47MF	20%	25V
CNP101	*1-508-801-00	U TYPE BASE POST 4P			
CNP102	*1-508-801-00	U TYPE BASE POST 4P			
CNP103	*1-508-799-00	BASE POST 2P (U TYPE)			
D101	8-719-107-94	DIODE 1SS202-1			
D102	8-719-107-94	DIODE 1SS202-1			
D104	8-719-101-60	DIODE RD6.2E-L1			
D105	8-719-100-36	DIODE RD5.6E-B3			
D201	8-719-107-94	DIODE 1SS202-1			
D202	8-719-107-94	DIODE 1SS202-1			
D401	8-719-906-58	DIODE GL-5HD21			
D402	8-719-906-58	DIODE GL-5HD21			
D403	8-719-906-58	DIODE GL-5HD21			

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
IC101	8-759-103-35	IC UPC1470H				
IC102	8-759-801-90	IC LM6417E-530				
IC201	8-759-600-02	IC M5218L				
J101	1-562-479-11	SOCKET, CONNECTOR 10P (OUTPUT)				
M101	8-835-126-01	MOTOR, DC (DNR-7600A)				
PL101	1-518-169-XX	LAMP, PILOT				
PM1	1-454-394-11	SOLENOID, PLUNGER, START/STOP				
PM2	1-454-394-11	SOLENOID, PLUNGER, SIZE				
Q101	8-729-204-83	TRANSISTOR 2SA1048-GR				
Q102	8-729-100-13	TRANSISTOR 2SC2001				
Q103	8-729-800-83	TRANSISTOR 2SB808				
Q105	8-729-245-83	TRANSISTOR 2SC2458				
Q106	8-729-100-13	TRANSISTOR 2SC2001				
Q107	8-729-100-13	TRANSISTOR 2SC2001				
Q109	8-729-245-83	TRANSISTOR 2SC2458				
Q301	8-729-101-01	TRANSISTOR PH101				
Q302	8-729-101-01	TRANSISTOR PH101				
R101	1-249-421-11	CARBON	2.2K	5%	1/6W	
R102	1-249-421-11	CARBON	2.2K	5%	1/6W	
R103	1-247-863-00	CARBON	22K	5%	1/6W	
R104	1-247-863-00	CARBON	22K	5%	1/6W	
R105	1-247-863-00	CARBON	22K	5%	1/6W	
R106	1-247-863-00	CARBON	22K	5%	1/6W	
R107	1-247-863-00	CARBON	22K	5%	1/6W	
R108	1-247-855-00	CARBON	10K	5%	1/6W	
R109	1-247-855-00	CARBON	10K	5%	1/6W	
R110	1-247-863-00	CARBON	22K	5%	1/6W	
R111	1-247-863-00	CARBON	22K	5%	1/6W	
R112	1-247-863-00	CARBON	22K	5%	1/6W	
R113	1-247-871-00	CARBON	47K	5%	1/6W	
R114	1-249-421-11	CARBON	2.2K	5%	1/6W	
R115	1-249-421-11	CARBON	2.2K	5%	1/6W	
R116	1-249-421-11	CARBON	2.2K	5%	1/6W	
R117	1-217-440-00	FUSIBLE	33	5%	1/2W	F
R118	1-247-855-00	CARBON	10K	5%	1/6W	
R119	1-247-847-00	CARBON	4.7K	5%	1/6W	
R120	1-247-879-00	CARBON	100K	5%	1/6W	
R121	1-247-831-00	CARBON	1K	5%	1/6W	
R122	1-247-823-00	CARBON	470	5%	1/6W	
R123	1-247-855-00	CARBON	10K	5%	1/6W	
R124	1-247-855-00	CARBON	10K	5%	1/6W	
R125	1-247-857-00	CARBON	12K	5%	1/6W	
R126	1-247-853-00	CARBON	8.2K	5%	1/6W	
R127	1-247-863-00	CARBON	22K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R129	1-247-855-00	CARBON	10K	5%	1/6W
R130	1-247-855-00	CARBON	10K	5%	1/6W
R131	1-247-863-00	CARBON	22K	5%	1/6W
R132	1-247-863-00	CARBON	22K	5%	1/6W
R134	1-247-831-00	CARBON	1K	5%	1/6W
R135	1-249-421-11	CARBON	2.2K	5%	1/6W
R136	1-247-863-00	CARBON	22K	5%	1/6W
R138	1-247-222-00	CARBON	180	5%	1/2W
R139	1-247-224-00	CARBON	220	5%	1/2W
R143	1-247-829-00	CARBON	820	5%	1/6W
R144	1-247-829-00	CARBON	820	5%	1/6W
R145	1-247-829-00	CARBON	820	5%	1/6W
R146	1-249-421-11	CARBON	2.2K	5%	1/6W
R147	1-247-863-00	CARBON	22K	5%	1/6W
R148	1-249-421-11	CARBON	2.2K	5%	1/6W
R149	1-247-879-00	CARBON	100K	5%	1/6W
R151	1-247-823-00	CARBON	470	5%	1/6W
R154	1-247-831-00	CARBON	1K	5%	1/6W
R201	1-247-879-00	CARBON	100K	5%	1/6W
R202	1-247-879-00	CARBON	100K	5%	1/6W
R207	1-247-807-00	CARBON	100	5%	1/6W
R208	1-247-807-00	CARBON	100	5%	1/6W
R209	1-247-879-00	CARBON	100K	5%	1/6W
R210	1-247-879-00	CARBON	100K	5%	1/6W
R217	1-247-819-00	CARBON	330	5%	1/6W
R218	1-247-819-00	CARBON	330	5%	1/6W
R219	1-247-861-00	CARBON	18K	5%	1/6W
R220	1-247-861-00	CARBON	18K	5%	1/6W
R223	1-247-887-00	CARBON	220K	5%	1/6W
R224	1-247-887-00	CARBON	220K	5%	1/6W
R227	1-247-831-00	CARBON	1K	5%	1/6W
R228	1-247-831-00	CARBON	1K	5%	1/6W
R231	1-249-421-11	CARBON	2.2K	5%	1/6W
R232	1-249-421-11	CARBON	2.2K	5%	1/6W
R237	1-247-807-00	CARBON	100	5%	1/6W
R238	1-247-807-00	CARBON	100	5%	1/6W
R239	1-247-863-00	CARBON	22K	5%	1/6W
R240	1-247-863-00	CARBON	22K	5%	1/6W
R401	1-249-421-11	CARBON	2.2K	5%	1/6W
RV101	1-226-232-00	RES, ADJ, CARBON 500			
RV102	1-226-232-00	RES, ADJ, CARBON 500			
S102	1-570-149-11	SWITCH, MICRO, ARM REST			
S401	1-553-856-00	SWITCH, KEY BOARD (SPEED)			
S402	1-553-856-00	SWITCH, KEY BOARD (REPEAT)			
S403	1-553-856-00	SWITCH, KEY BOARD (START/STOP)			

English
85F04100-1
Printed in Japan
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Sony Corporation

107

SS-V700

SERVICE MANUAL

This is the speaker system for XO-700 and XO-700W.

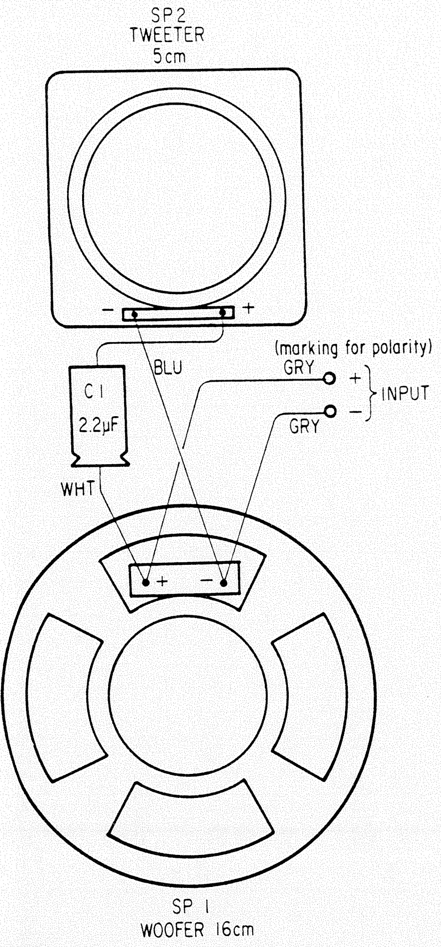
AEP Model

SPECIFICATIONS

Speaker system	2-way speaker system
Speaker units	Woofer: 16 cm, cone type Tweeter: 5 cm, cone type
Enclosure type	Acoustic suspension
Finish	Black vinyl
Volume	11 liters
Nominal impedance	6 ohms
Power handling capacity	Music 40 W DIN 45 500
Sensitivity	88 dB (1 W, 1 m) 6.3 W (96 dB, 1 m) DIN 45 500
Frequency range	75 Hz – 20,000 Hz $^{+4}_{-8}$ dB
Crossover frequency	7,000 Hz
Dimensions	Approx. 215 x 342 x 215 mm (w/h/d)
Weight	Approx. 3.2 kg per speaker, net Approx. 7.1 kg in shipping carton (two speakers)

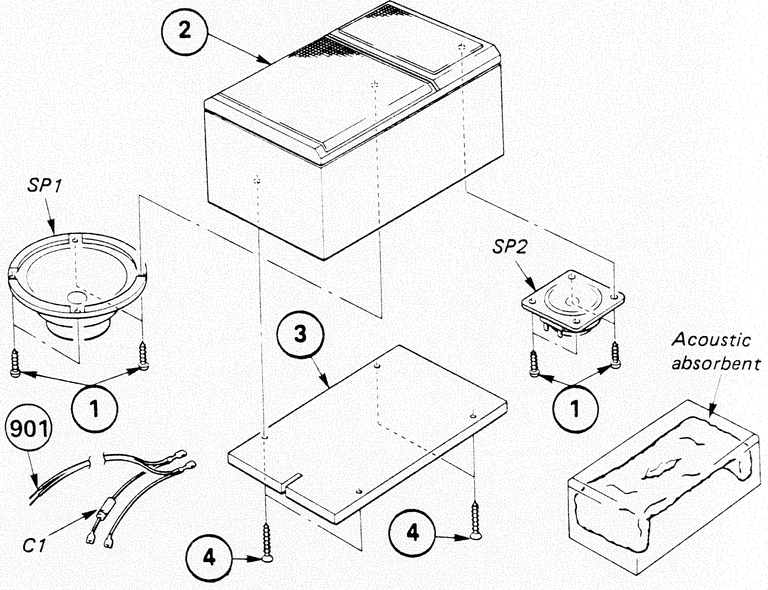
Photo : R-CH unit

1. WIRING DIAGRAM



2. EXPLODED VIEW

. This is the exploded view of R-CH unit. As to L-CH unit, tweeter (SP2) is at left side.
. CAPACITORS: MF:μF, PF:μμF



No.	Part No.	Description
1	T-8150-444-1	TAPPING SCREW +B 3.5X10
2	T-8150-172-A	SPEAKER BOX ASSY (L)
	T-8150-173-A	SPEAKER BOX ASSY (R)
3	T-8150-554-1	BACK BOARD
4	T-8150-440-1	TAPPING SCREW +B 3X25
901	T-8150-157-A	WIRE KIT ASSY (including C1)
C1	T-8110-253-1	CAPACTOR (C) 2.2MF
SP1	8-927-218-00	SPEAKER, WOOFER (16cm)
SP2	T-8110-247-1	SPEAKER, TWEETER (5cm)

ACCESSORY

T-8150-563-1 MANUAL, INSTRUCTION

SPEAKER SYSTEM

SONY

MICROFILM

English
85D0451-1
Printed in Japan

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9-951-666-21

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